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OM nucleic - nucleic search, using sw model

Run on: August 17, 2005, 22:08:26 ; Search time 243 Seconds
(without alignments)
8073.645 Million cell updates/sec

Title: US-10-735-577-16

Perfect score: 1199

Sequence: 1 ggaactaaaagaacttta.....cggggttcgccgccaccgg 1199

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA.*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PTCUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	601	50.1	649	US-09-461-912A-36	Sequence 36, Appl
C 2	557	46.5	579	US-09-461-912A-24	Sequence 24, Appl
C 3	523	43.6	582	US-09-513-999C-14898	Sequence 14898, A
C 4	485.2	40.5	2016	US-10-000-489-1	Sequence 1, Appli
C 5	329.8	27.5	600	US-09-399-913-64	Sequence 64, Appl
C 6	329.8	27.5	600	US-09-350-614-64	Sequence 64, Appl
C 7	328.4	27.4	570	US-09-461-912A-23	Sequence 23, Appl
C 8	164.8	13.7	276	US-09-313-294A-4020	Sequence 4020, Ap
C 9	164.8	13.7	509	US-09-385-982-150	Sequence 150, App
C 10	101	8.4	191	US-09-680-420A-21	Sequence 21, Appl
C 11	85.8	7.2	522	US-09-774-528-414	Sequence 414, App
C 12	75.2	6.3	592	US-09-949-016-5370	Sequence 5370, Ap
C 13	71.2	5.9	434	US-09-949-016-4686	Sequence 4686, Ap
C 14	71.2	5.9	439	US-09-814-915A-87	Sequence 87, Appl
C 15	71.2	5.9	860	US-09-919-172-101	Sequence 101, App
C 16	71.2	5.9	860	US-09-976-594-466	Sequence 466, App
C 17	69	5.8	205	US-09-513-999C-14895	Sequence 14895, A
C 18	65.2	5.4	1081	US-09-566-921-119	Sequence 119, App
C 19	63.6	5.3	962	US-09-919-039-183	Sequence 183, App
C 20	62.2	5.2	279	US-09-513-999C-1413	Sequence 1413, Ap
C 21	54.4	4.5	2592	US-09-949-016-2162	Sequence 2162, Ap
C 22	54.4	4.5	43690	US-09-949-016-13904	Sequence 13904, A
C 23	54.2	4.5	421	US-09-643-597-308	Sequence 308, App
C 24	54.2	4.5	421	US-09-480-884A-308	Sequence 308, App
C 25	54.2	4.5	421	US-09-542-615A-308	Sequence 308, App
C 26	54.2	4.5	421	US-09-606-421B-308	Sequence 308, App
C 27	54.2	4.5	421	US-09-630-940B-308	Sequence 308, App

C 28	54.2	4.5	527	3	US-09-370-838-281	Sequence 281, App
C 29	54.2	4.5	527	4	US-09-854-133-281	Sequence 281, App
C 30	54.2	4.5	579	1	US-08-190-560-3	Sequence 3, Appli
C 31	54.2	4.5	579	1	US-08-469-277-3	Sequence 3, Appli
C 32	54.2	4.5	579	2	US-08-468-946-3	Sequence 3, Appli
C 33	54.2	4.5	579	2	US-08-468-942-3	Sequence 3, Appli
C 34	54.2	4.5	579	4	US-09-298-625-3	Sequence 3, Appli
C 35	54	4.5	86380	4	US-09-949-016-14837	Sequence 14837, A
C 36	53.2	4.4	303	1	US-08-190-560-1	Sequence 1, Appli
C 37	53.2	4.4	303	1	US-08-469-277-1	Sequence 1, Appli
C 38	53.2	4.4	303	2	US-08-468-946-1	Sequence 1, Appli
C 39	53.2	4.4	303	2	US-08-468-942-1	Sequence 1, Appli
C 40	53.2	4.4	303	4	US-09-298-625-1	Sequence 1, Appli
C 41	52.8	4.4	452	1	US-07-662-198B-1	Sequence 1, Appli
C 42	52.8	4.4	452	1	US-08-322-742-1	Sequence 1, Appli
C 43	52.6	4.4	392	4	US-09-702-705-1585	Sequence 1585, Ap
C 44	52.6	4.4	392	4	US-09-736-457-1585	Sequence 1585, Ap
C 45	52.6	4.4	392	4	US-09-614-124B-1585	Sequence 1585, Ap

ALIGNMENTS

RESULT 1

US-09-461-912A-36/c

; Sequence 36, Application US/09461912A

; Patent No. 6709855

; GENERAL INFORMATION:

; APPLICANT: Stanton, Lawrence A.

; APPLICANT: White, R. Tyler

; APPLICANT: Damm, Deborah L.

; APPLICANT: Lewicki, John A.

; TITLE OF INVENTION: Methods for detection and use of

; FILE REFERENCE: SCIOS 011A

; CURRENT APPLICATION NUMBER: US/09/461.912A

; CURRENT FILING DATE: 1999-12-15

; PRIOR APPLICATION NUMBER: US 60/113,008

; PRIOR FILING DATE: 1998-12-18

; NUMBER OF SEQ ID NOS: 48

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 36

; LENGTH: 649

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (113)...(405)

US-09-461-912A-36

Query Match 50.1%; Score 601; DB 4; Length 649;
Best Local Similarity 99.7%; Pred. No. 2.9e-148;
Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy	1	GGAACTAAAAAGAACTTTATTATTGAGGGCAAGGGATGCAAACTACAAAAATCAA	60
Db	649	GGAACTAAAAAGAACTTTATTATTGAGGGCAAGGGATGCAAACTACAAAAATCAA	590
Qy	61	AGCTTATCTGGTATTTAACCTTTCTCTGCTGTCAAATGAGATTAGATTTTATT	120
Db	589	AGCTTATCTGGTATTTAACCTTTCTCTGCTGTCAAATGAGATTAGATTTTATT	530
Qy	121	TTTACATTTCTGAAGTCTCTGATCTGCTCATGAATCTTCTATGGGGAAGCTGTGGG	180
Db	529	TTTACATTTCTGAAGTCTCTGATCTGCTCATGAATCTTCTATGGGGAAGCTGTGGG	470
Qy	181	GCAGATTCTTAAGCGACCTTTGGGCAAACTTTATCAGGAGGAGCGAAGCTGCTATT	240
Db	469	GCAGATTCTTAAGCGACCTTTGGGCAAACTTTATCAGGAGGAGCGAAGCTGCTATT	411
Qy	241	TCGCGCTACTCTTCTCCCTTCTGCTTACTGCTACTACAAATAGTATTGTCATGCAATG	300
Db	410	TCGCGCTACTCTTCTCCCTTCTGCTTACTGCTACTACAAATAGTATTGTCATGCAATG	351

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QY 301 GTGAGGCCCGCAATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db 350 GTGAGGCCCGCAATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 291
QY 361 TCCAGGTCTCTCAATATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTCCAAAAATCCA 420
Db 290 TCCAGGTCTCTCAATATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTCCAAAAATCCA 231
QY 421 GGAACCTCTTTTCCATGAGTACTCTCAGTCTCTCTCTTTGTTAAAGTAGCCCTTTATCCCCA 480
Db 230 GGAACCTCTTTTCCATGAGTACTCTCAGTCTCTCTCTTTGTTAAAGTAGCCCTTTATCCCCA 171
QY 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGCGTTCCTATTTGAGATGGCAAT 540
Db 170 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGCGTTCCTATTTGAGATGGCAAT 111
QY 541 TTGGTGTGTCCTGTTGAAGCCTTTGGCCGAGCGCGCGGACGCTGGGCGAGCTGGCGAG 600
Db 110 TTGGTGTGTCCTGTTGAAGCCTTTGG- CGAGGCGCGCGGACGCTGGGCGAGCTGGCGAG 52
QY 601 CTGACGCGGGCGGAGGCGGAGC 625
Db 51 CTGACGCGGGCGGAGGCGGAGC 27
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RESULT 2

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US-09-461-912A-24/c
; Sequence 24, Application US/09461912A
; Patent No. 6709855
; GENERAL INFORMATION:
; APPLICANT: Stanton, Lawrence A.
; APPLICANT: White, R. Tyler
; APPLICANT: Damm, Deborah L.
; APPLICANT: Lewicki, John A.
; TITLE OF INVENTION: Methods for detection and use of
; FILE REFERENCE: SCIOS.011A
; CURRENT APPLICATION NUMBER: US/09/461,912A
; CURRENT FILING DATE: 1999-12-15
; PRIOR APPLICATION NUMBER: US 60/113,008
; PRIOR FILING DATE: 1998-12-18
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-461-912A-24
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Query Match 46.58; Score 557; DB 4; Length 579;
Best Local Similarity 99.7%; Pred. No. 1.1e-136;
Matches 579; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

QY 1 GGAACAAAAAGAACCTTTATTTATTGAGGCAAGGGGATGCAAAACAATACAAAAATCAA 60
Db 579 GGAACAAAAAGAACCTTTATTTATTGAGGCAAGGGGATGCAAAACAATACAAAAATCAA 520
QY 61 AAGCTTATCTGGTATTTAACTTTCTCTCTGCTGCTCAAAATGAGAGTTAGATTTTATT 120
Db 519 AAGCTTATCTGGTATTTAACTTTCTCTCTGCTGCTCAAAATGAGAGTTAGATTTTATT 460
QY 121 TTTACATTTCTAAGTGTCTGATCTCTCATGAAATCCTTCTATGGGGAAGCTGTGG 180
Db 459 TTTACATTTCTAAGTGTCTGATCTCTCATGAAATCCTTCTATGGGGAAGCTGTGG 400
QY 181 GCAGATTCCTTAAGCGACCTTTTGGACAACCTTTATCGAGGAGGAGCGAACTGCTCATT 240
Db 399 GCAGATTCCTTAAGCGACCTTTT- GGACAACCTTTATCGAGGAGGAGCGAACTGCTCATT 341
QY 241 TCTGCCCTACTCTTTCCCTTCTGCTTCATGTGTAACAATAATAGTCATTCGATGCAATG 300
Db 340 TCTGCCCTACTCTTTCCCTTCTGCTTCATGTGTAACAATAATAGTCATTCGATGCAATG 281
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QY 301 GTGAGGCCCGCAATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db 280 GTGAGGCCCGCAATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 221
QY 361 TCCAGGTCTCTCAATATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTCCAAAAATCCA 420
Db 220 TCCAGGTCTCTCAATATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTCCAAAAATCCA 161
QY 421 GGAACCTCTTTTCCATGAGTACTCTCAGTCTCTCTCTTTGTTAAAGTAGCCCTTTATCCCCA 480
Db 160 GGAACCTCTTTTCCATGAGTACTCTCAGTCTCTCTCTTTGTTAAAGTAGCCCTTTATCCCCA 101
QY 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGCGTTCCTATTTGAGATGGCAAT 540
Db 100 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGCGTTCCTATTTGAGATGGCAAT 41
QY 541 TTGGTGTGTCCTGTTGAAGCCTTTGGCCGAGCGCGCGGAC 581
Db 40 TTGGTGTGTCCTGTTGAAGCCTTTGG- CGAGGCGCGCGGAC 1
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RESULT 3

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US-09-513-999C-14898/c
; Sequence 14898, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 14898
; LENGTH: 582
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 114
; OTHER INFORMATION: y=c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 117
; OTHER INFORMATION: k=g or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 126
; OTHER INFORMATION: r=a or g
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 140
; OTHER INFORMATION: r=a or g
US-09-513-999C-14898
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Query Match 43.6%; Score 523; DB 4; Length 582;
Best Local Similarity 97.9%; Pred. No. 9.6e-128;
Matches 547; Conservative 4; Mismatches 4; Indels 4; Gaps 2;
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QY 30 GGAAGGGGATGCAAAACAATACAAAAATCAAAAGCTTATCTGTAATTTAACTTTCTTTC 89
Db 582 GGAAGGGGATGCAAAACAATACAAAAATCAAAAGCTTATCTGTAATTTAACTTTCTTTC 523
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QY 90 TCTGCTGTCAAATGAGAGTGTAGATTTTATTTTACATTGCTAAGTGTCTGTGATGTGCT 149
Db 522 TCTGCTGTCAAATGAGAGTGTAGATTTTATTTTACATTGCTAAGTGTCTGTGATGTGCT 463
QY 150 CATGAAATCCCTCTATGCGGGAAGCTGTGGGCGAGATTCCTTAAGCGACCCCTTTGGGACA 209
Db 462 CATGAAATCCCTCTATGCGGGAAGCTGTGGGCGAGATTCCTTAAGCGACCCCTTT--GACA 405
QY 210 ACTCTTATCAGGAGGAGCGAACTGCTCATTTTCTGCGCTACTTCTTTCCCTTCTGCTTCAT 269
Db 404 ACTCTTATCAGGAGGAGCGAACTGCTCATTTTCTGCGCTACTTCTTTCCCTTCTGCTTCAT 345
QY 270 GTGTACTACAAAATAGTCATTCATGCAATGCTGAGGCGCGCAATAGGAAAAGAGCT 329
Db 344 GTGTACTACAAAATAGTCATTCATGCAATGCTGAGGCGCGCAATAGGAAAAGAGCT 285
QY 330 CTGGAAGCCCACTTTGGCCATCTCTACACTGCTGAGGTCCTTCAATTTTGTCCACAGC 389
Db 284 CTGGAAGCCCACTTTGGCCATCTCTACACTGCTGAGGTCCTTCAATTTTGTCCACAGC 225
QY 390 CAGAGGGTCTTTTGAATTTCCAAAATCCAGGGAATCTCTTTTCCATGAGTACTCTCAG 449
Db 224 CAGAGGGTCT--TTTGAATTTCCAAAATCCAGGGAATCTCTTTTCCATGAGTACTCTCAG 167
QY 450 GTCTCTCTTTGTTAAGTAGCCTTTATCCCGAGCGAAATTTGTGAATGTAAACATCATGCT 509
Db 166 GTCTCTCTTTGTTAAGTAGCCTTTATYCCAGCGAAATTTGYGAAATGTAAACRTCATGCT 107
QY 510 TTCCATGCGGTGTCATTCAGATGCGCATTTTGGTGTGTCGCTTGAAGCCTTTGGCGGA 569
Db 106 TTCCATGCGGTGTCATTCAGATGCGCATTTTGGTGTGTCGCTTGAAGCCTTTGGCGGA 47
QY 570 GCGCGCGCGGACGCTGGGC 588
Db 46 GCGCGCGCGGCTGTGCGC 28

RESULT 4
US-10-000-489-1/c
; Sequence 1, Application US/10000489
; Patent No. 6794363
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91 US6 DIV
; CURRENT APPLICATION NUMBER: US/10/000,489
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 1
; LENGTH: 2016
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5' UTR
; LOCATION: 1..1434
; NAME/KEY: CDS
; LOCATION: 1435..1836
; NAME/KEY: 3' UTR
; LOCATION: 1837..2016
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; NAME/KEY: polyA_signal
; LOCATION: 1965..1970
; NAME/KEY: polyA_site
; LOCATION: 2001..2016
US-10-000-489-1

Query Match 40.5%; Score 485.2; DB 4; Length 2016;
Best Local Similarity 94.7%; Pred. No. 1.5e-117;
Matches 502; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

QY 73 TATTAACTTTCTCTCTGCTGTCAAAATGAGATTTATTTTACATTGCT 132
Db 2012 TTTTCTTTCTCTCTGCTGTCAAAATGAGATTTATTTTACATTGCT 1953
QY 133 AAGTGTCTGATCTGCTCATGAAATCTTCTATGGGGAAGCTGTGGGCGAGATTCCTTA 192
Db 1952 AAGTGTCTGATCTGCTCATGAAATCTTCTATGGGGAAGCTGTGGGCGAGATTCCTTA 1893
QY 193 AGCAGCCCTTTGGGACAACCTCTTATCAGGAGGAGCGAACTGCTCATTTTGTGCTACTTC 252
Db 1892 AGCAGCCCTTTGGGACAACCTCTTATCAGGAGGAGCGAACTGCTCATTTTGTGCTACTTC 1833
QY 253 TTTCCCTTCTGCTCATGCTGTACTACAAATAGTCATTCGATGCAATGGTGAGGCCGCA 312
Db 1832 TTTCCCTTCTGCTCATGCTGTACTACAAATAGTCATTCGATGCAATGGTGAGGCCGCA 1773
QY 313 ATTAGGAAAAGAGCTCTGGAAGCCCACTTTGGCCATCTCTACACTGCTCAGGCTCCTTC 372
Db 1772 ATTAGGAAAAGAGCTCTGGAAGCCCACTTTGGCCATCTCTACACTGCTCAGGCTCCTTC 1713
QY 373 ATTAATTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAATCCAGGGAATCTCCTTT 432
Db 1712 ATTAATTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAATCCAGGGAATCTCCTTT 1653
QY 433 TCCATGAGTACTCTCAGGCTCCTCTTTGTTAAGTAGCTTTATCCCGAGCAATTTGTGA 492
Db 1652 TCCATGAGTACTCTCAGGCTCCTCTTTGTTAAGTAGCTTTATCCCGAGCAATTTGTGA 1593
QY 493 AATGTAACATCATGCTGTTTCCATGGCGTGTTCATTTGAGATGCGCATTTTGGTGTGGTCC 552
Db 1592 AATGTAACATCATGCTGTTTCCATGGCGTGTTCATTTGAGATGCGCATTTTGGTGTGGTCC 1533
QY 553 GTTGAAGCCTTTGGCGGAGGCGCGGCGAGCGCTGGGCGAGCTGGGCGAGCT 602
Db 1532 GTTGAAGCCTTCCAGAGGCTCAGTGCAGGCTGTGGGCGAGCAAGAAAGGT 1483

RESULT 5
US-09-399-913-64/c
; Sequence 64, Application US/09399913
; Patent No. 6361971
; GENERAL INFORMATION:
; APPLICANT: Rhodes, Kenneth
; APPLICANT: Betty, Maria
; APPLICANT: Ling, Hual-Ping
; APPLICANT: An, Wenqian
; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR
; FILE REFERENCE: WNI-070CP2
; CURRENT APPLICATION NUMBER: US/09/399,913
; CURRENT FILING DATE: 1999-09-21
; EARLIER APPLICATION NUMBER: USSN 60/110,277
; EARLIER FILING DATE: 1998-11-30
; EARLIER APPLICATION NUMBER: USSN 60/110,033
; EARLIER FILING DATE: 1998-11-25
; EARLIER APPLICATION NUMBER: USSN 60/109,333
; EARLIER FILING DATE: 1998-11-20
; EARLIER APPLICATION NUMBER: USSN 09/298,731
; EARLIER FILING DATE: 1999-04-23
; EARLIER APPLICATION NUMBER: USSN 09/350,614
; EARLIER FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: USSN 09/350,874
; EARLIER FILING DATE: 1999-07-09
; NUMBER OF SEQ ID NOS: 73
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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 64
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Rattus sp.
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (52)..(336)
US-09-399-913-64

Query Match 27.5%; Score 329.8; DB 3; Length 600;
Best Local Similarity 77.8%; Pred. No. 7.3e-77;
Matches 458; Conservative 0; Mismatches 107; Indels 24; Gaps 4;

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Qy 7 AAAAAAGACTTTATTTATTGAGGCAAGGGATGCAAAACAATACAAAAATCAAAAGCTT 66
Db 569 AAAAAAGACTTTCTTTATTGAGGCAACCGGATGCAAAACAATATAAACTCGAAAGCTC 510
Qy 67 ATCTGGTAT-----TTAACTTTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATTTT 122
Db 509 CTCTGTCATTGGATTAACTTTCTTCTCTGCTTGTGCAATTTGGAGTTGGATGTTATTTG 450
Qy 123 TACATTTGCTAAGTGCTGATCTGCTCATGAATCCTTCTATGGGGGAAGCTGTGGGC 182
Db 449 CACATTTCTAAGGCTCTGATCTGTCTCA-----CAGGAAGCAGTGGGC 405
Qy 183 AGATTCTTAAGGACCTTTTGGGACAACTTATCAGGGAGGAGCGAACTGCTCATTTT 242
Db 404 AGATTCTTAAGGACCTTTTGGGACAACTTATCAGGGAGGAGCGAACTGCTCATTTT 349
Qy 243 TGCTTACTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 302
Db 348 CCAGTTGGCTTACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 289
Qy 303 GAGCCCGCAATTAGGAAAGAGCTCTGAGAGCCCACTTTTGGATTTTCCAAAATCCAGG 422
Db 288 GAGCCCGCAATTAGGAAAGAGCTCTGAGAGCCCACTTTTGGATTTTCCAAAATCCAGG 169
Qy 423 GAATTTGTAAATGTAACATCATGTTTCAAGGCGTGTTCATTTGAGATGGCATTTT 542
Db 108 AAACCTGTAAATGTAACATCATGTTTCCATGGCATGCTCCATTTTGGATGGCATTTT 49
Qy 543 GGTGTGCTCGTTGAAGCCTTGGCCGAGCGCGGCGAGCTGGCGAG 591
Db 48 GAAG-AATCTGTTGAAACCTGGGCCCTGAGCGCTGAGTCTTTTGAAG 1
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RESULT 6

US-09-350-614-64/c

; Sequence 64, Application US/09350614

; Patent No. 6689581

; GENERAL INFORMATION:

; APPLICANT: Rhodes, Kenneth

; APPLICANT: Betty, Maria

; APPLICANT: Ling, Huai-Ping

; APPLICANT: An, Wenqian

; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR

; FILE REFERENCE: MNI-070CP

; CURRENT APPLICATION NUMBER: US/09/350.614

; CURRENT FILING DATE: 1999-07-09

; EARLIER APPLICATION NUMBER: USSN 09/298,731

; EARLIER FILING DATE: 1999-04-23

; EARLIER APPLICATION NUMBER: USSN 60/110,277

; EARLIER FILING DATE: 1998-11-30

; EARLIER APPLICATION NUMBER: USSN 60/110,033

; EARLIER FILING DATE: 1998-11-25
; EARLIER APPLICATION NUMBER: USSN 60/109,333
; EARLIER FILING DATE: 1998-11-20
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 64
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Rattus sp.
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (52)..(336)
US-09-350-614-64

Query Match 27.5%; Score 329.8; DB 4; Length 600;
Best Local Similarity 77.8%; Pred. No. 7.3e-77;
Matches 458; Conservative 0; Mismatches 107; Indels 24; Gaps 4;

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Qy 7 AAAAAAGACTTTATTTATTGAGGCAAGGGATGCAAAACAATACAAAAATCAAAAGCTT 66
Db 569 AAAAAAGACTTTCTTTATTGAGGCAACCGGATGCAAAACAATATAAACTCGAAAGCTC 510
Qy 67 ATCTGGTAT-----TTAACTTTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATTTT 122
Db 509 CTCTGTCATTGGATTAACTTTCTTCTCTGCTTGTGCAATTTGGAGTTGGATGTTATTTG 450
Qy 123 TACATTTGCTAAGTGCTGATCTGCTCATGAATCCTTCTATGGGGGAAGCTGTGGGC 182
Db 449 CACATTTCTAAGGCTCTGATCTGTCTCA-----CAGGAAGCAGTGGGC 405
Qy 183 AGATTCTTAAGGACCTTTTGGGACAACTTATCAGGGAGGAGCGAACTGCTCATTTT 242
Db 404 AGATTCTTAAGGACCTTTTGGGACAACTTATCAGGGAGGAGCGAACTGCTCATTTT 349
Qy 243 TGCTTACTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 302
Db 348 CCAGTTGGCTTACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 289
Qy 303 GAGCCCGCAATTAGGAAAGAGCTCTGAGAGCCCACTTTTGGATTTTCCAAAATCCAGG 362
Db 288 GAGCCCGCAATTAGGAAAGAGCTCTGAGAGCCCACTTTTGGATTTTCCAAAATCCAGG 229
Qy 363 CAGGTCTCTTCCATGAGTACTCTCAGGCTCTCTCTTGTGTTAAGTAGCTTTATCCCCAGC 422
Db 228 CAGGTCTCTTCCATGAGTACTCTCAGGCTCTCTCTTGTGTTAAGTAGCTTTATCCCCAGC 169
Qy 423 GAATTTGTAAATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATTTT 542
Db 168 GAATTTGTAAATGTAACATCATGTTTCCATGGCATGCTCCATTTTGGATGGCATTTT 109
Qy 483 GAATTTGTAAATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATTTT 542
Db 108 AAACCTGTAAATGTAACATCATGTTTCCATGGCATGCTCCATTTTGGATGGCATTTT 49
Qy 543 GGTGTGCTCGTTGAAGCCTTGGCCGAGCGCGGCGAGCTGGCGAG 591
Db 48 GAAG-AATCTGTTGAAACCTGGGCCCTGAGCGCTGAGTCTTTTGAAG 1
```

RESULT 7

US-09-461-912A-23/c

; Sequence 23, Application US/09461912A

; Patent No. 6709855

; GENERAL INFORMATION:

; APPLICANT: Stanton, Lawrence A.

; APPLICANT: White, R. Tyler

; APPLICANT: Damm, Deborah L.

; APPLICANT: Lewicki, John A.

; TITLE OF INVENTION: Methods for detection and use of

; FILE REFERENCE: SCIOS.011A

; CURRENT APPLICATION NUMBER: US/09/461,912A

; CURRENT FILING DATE: 1999-12-15


```
QY 458 TTGTTAAG 465
|||
Db 523 TGGTCAGG 516

RESULT 16
US-09-976-594-466/c
; Sequence 466, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 466
; LENGTH: 860
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 1422432CB1
; NAME/KEY: unsure
; LOCATION: 205
; OTHER INFORMATION: a, t, c, g, or other
US-09-976-594-466

Query Match 5.9%; Score 71.2; DB 4; Length 860;
Best Local Similarity 61.2%; Pred. No. 1.1e-08;
Matches 115; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 278 CAAATAGTCATGTCATGTCGATGTCGAGCCGCAATTAGGGAAAGAAAGCTCTGGAAGC 337
|||||
Db 703 CAAAGTACTTGTGNACGCGACAGCTGATTCGAGCCAGAACACAGATGAATCACTGAAT 644

QY 338 CCACCTTGGCCATCTCTACACTGGTCGAGGTCCTTCATATTTTGTCCACAGCCAGAGGGT 397
|||||
Db 643 CCACCTGGGCATCTCCATTGGCGTCCAGGTCCTTTGACAAATTTATCCACGGCATCCTTGT 584

QY 398 CTTTTCGATTTCCAAAATCCAGGAACTCCTTTTCCATGAGTACTCTCAGTCTCCTCT 457
|||||
Db 583 CTTTTCACCTCGCAGGAAGCCTGGTAGCTCCTTCTCCATCAGCACACCTTGAGCTCCCCCT 524

QY 458 TTGTTAAG 465
|||
Db 523 TGGTCAGG 516

RESULT 17
US-09-513-999C-14895/c
; Sequence 14895, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 14895
; LENGTH: 205

QY 458 TTGTTAAG 465
|||
Db 523 TGGTCAGG 516
```

```
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 53
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 54
; OTHER INFORMATION: n=a, g, c or t
US-09-513-999C-14895

Query Match 5.8%; Score 69; DB 4; Length 205;
Best Local Similarity 88.2%; Pred. No. 2e-08;
Matches 75; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 338 CCACCTTGGCCATCTCTACACTGGTCGAGGTCCTTCATATTTTGTCCACAGCCAGAGGGT 397
|||||
Db 205 CCACCTTGGCCATCTCTACACTGGTCGAGGTCCTTCATATTTTGTCCACAGCCAGAGGGT 146

QY 398 CTTTTCGATTTCCAAAATCCAGG 422
|||||
Db 145 CTTTTCGACACGCTATGCTCCAAG 121

RESULT 18
US-09-566-921-119/c
; Sequence 119, Application US/09566921
; Patent No. 6682888
; GENERAL INFORMATION:
; APPLICANT: Loring, Jeanne F.
; APPLICANT: Tingley, Debora W.
; APPLICANT: Edwards, Carla M.
; TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE
; FILE REFERENCE: PA-0024 US
; CURRENT APPLICATION NUMBER: US/09/566,921
; CURRENT FILING DATE: 2000-05-05
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PERL Program
; SEQ ID NO 119
; LENGTH: 1081
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6682888 021192.8
US-09-566-921-119

Query Match 5.4%; Score 65.2; DB 4; Length 1081;
Best Local Similarity 55.2%; Pred. No. 4.5e-07;
Matches 127; Conservative 0; Mismatches 103; Indels 0; Gaps 0;

QY 250 TTCTTTCCCTTCGCTTCATGTGTACTACAAAATAGTCAATTTGCATGCAATGGTGAGGCC 309
|||||
Db 603 TTGGCTGCTTTCTTAATCTCACTCATGTTCAAAGAACTCGTGGCAGCAGTAGTAACCATG 544

QY 310 GCAATTAGGGAAGAAAGCTCTGGAGCCACCTTTGCCATCTCTACACTGGTCCAGGTCC 369
|||||
Db 543 GCAACAAAGGCCATGAATTCCTGGAAAGTCACTTCGCCGCTCTCCATCATTTGTCAGTGT 484

QY 370 TTCAATTTATTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAATCCAGGGAATCC 429
|||||
Db 483 TCCATGACITTTGTCCCAACCTCCTCTCTTTGATTTTCTCTAAGAAATGGGAAAGCTCA 424

QY 430 TTTTCCATGAGTACTCTCAGGTCCTCCTTTGTTAGTAGCCTTTATCCCC 479
|||||
Db 423 TTGTTGATGAGCTCCTTCAGTTCCGATTTCTTCAGCTTGTGCTTGTCTCC 374

RESULT 19
US-09-919-039-183/c
; Sequence 183, Application US/09919039
; Patent No. 6727066
```

GENERAL INFORMATION:
; APPLICANT: Kaser, Matthew R.
; TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES
; FILE REFERENCE: PA-0035 US
; CURRENT APPLICATION NUMBER: US/09/919,039
; CURRENT FILING DATE: 2002-09-09
; PRIOR APPLICATION NUMBER: 60/222,113
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 401
; SOFTWARE: PERL Program
; SEQ ID NO 183
; LENGTH: 962
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6727066 2706645CB1
US-09-919-039-183

Query Match 5.3%; Score 63.6; DB 4; Length 962;
Best Local Similarity 54.8%; Pred. No. 1.1e-06;
Matches 126; Conservative 0; Mismatches 104; Indels 0; Gaps 0;
QY 250 TTCTTTCCCTCTCTCTCACTGCTACTACAAATAGTCAATGCAATGGTGGAGGCC 309
DB 557 TTGGCTGCTTCTAACTCACTCATGTCTCAAGAACTCGTGGCAGGAGTAGTAACCATG 498
QY 310 GCAATTAGGAAAAAGAGCTCTGGAAGCCCACTTTGGCATCTCTACACTGTGTCAGGTCC 369
DB 497 GCAACAAGGCCATGATCTCTGGAAGTCACTTCGGCGTCTCATCTATTGTCCAGTGT 438
QY 370 TTCAATATTTGTCCACAGCAGGAGGTCTTTTGTATTTTCCAAAAATCCAGGAACTCC 429
DB 437 TCCATGACTTTGTCCACAACCTCTCTGCTCTTTGATTTTCTTAAGAAATGGAAAGCTCA 378
QY 430 TTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTACCTTTATCCCC 479
DB 377 TTGTTGATGAGCTCTCTTGAGTTCGATTTCTTACGCTTGCTGTCTCC 328

RESULT 20
US-09-513-999C-1413/C
; Sequence 1413, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 1413
; LENGTH: 279
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 56..277
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 223
; OTHER INFORMATION: w=a or t
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 56
; OTHER INFORMATION: Xaa=Lys or Asn
US-09-513-999C-1413

Query Match 5.2%; Score 62.2; DB 4; Length 279;
Best Local Similarity 66.2%; Pred. No. 1.5e-06;
Matches 88; Conservative 1; Mismatches 44; Indels 0; Gaps 0;
QY 333 GAAGCCCACTTTGCCATCTCTACACTGGTCCAGGTCCTTTCATATTTTGTCCACAGCCAG 392
DB 268 GAAGTCCACCTGGGCATCTCCATTTGGCGTCCAGGTCTTGAGCAATTTATCCACGGCATC 209
QY 393 AGGTCTTTTGTATTTTCCAAAAATCCAGGAACTCTTTTTCATAGTACTCTTCAGGTC 452
DB 208 CTGTCTTTTCCACTCTGAGGAAGCTGTAGTCTCTCTTCCATCAGCACCTTGAGCTC 149
QY 453 CTCCTTTGTTAAG 465
DB 148 CCCCTTGGTCAGG 136

RESULT 21
US-09-949-016-2162/c
; Sequence 2162, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2162
; LENGTH: 2592
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2162

Query Match 4.5%; Score 54.4; DB 4; Length 2592;
Best Local Similarity 51.0%; Pred. No. 0.00047;
Matches 153; Conservative 0; Mismatches 146; Indels 1; Gaps 1;
QY 538 ATTTTGTGTGTCCGTTGAGGCTTTGGCCGAGCGCGGCGGAGCTTGGCGGAGCTGGCG 597
DB 506 ATGTAGAGGGTGTGCGCCGAGGCCATGGCTGAGGGTCTCCGCCCCACGCGCGCGGCC 447
QY 598 GAGCTGACGCGCGGGCGGAGAGCGAGCGCGGGGCTGTGCGCTTCTTTAGTACGTGC 657
DB 446 TCGGCTCTCGGCTGCGGGCGGCGGCGGAGAGGCGGCGCGCGGCGGCGGAGGAAGCA 387
QY 658 GCGGGTGGGTAGAGGAGCGCGCGGAGAGCGGAGAGGAGCTTGGCGGGCGCTCGGCGAG 717
DB 386 GAGGAGGAAGGCGCGAGCGCGGGGAGAGGGGCGGCGGCGGCGGCGGCGGCGGCGG 327
QY 718 GCGCTCCCCAGCCCTGTCTTCTCCCTCTTCTGCCCCCGACTCCCGCGACCCCGGGC 777
DB 326 GCGCCGCGGCGGCGGCGGCGCTTCCCGCGCTCTCGGCTCGGCTGCGCGCGCGCGCG 267
QY 778 GCGC-GGCCACGCGCTTCCCTCGCTCCCGGACCCCGCTTCGAGAGGCGCTTCGCGCCG 836
DB 266 TCGCTCGGCGCTGCTGCTCTCGGCTCCCGCGCTCGGCTCGGCTCGGCTCGGCTCGG 207

RESULT 22
US-09-949-016-13904/c
; Sequence 13904, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:

QY 478 -----CCAGCGAATTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATT 528
Db 112 CCCTCTTTGGCCGAGTACTTGTGAAGGTGGACACCATCATCCAGGGCCTTCTCCAGA 53
QY 529 TGAGATGGCAT 539
Db 52 GGGCAGCCCAT 42

RESULT 25
US-09-542-615A-308/c
; Sequence 308, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy R.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542.615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 308
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-542-615A-308

Query Match 4.5%; Score 54.2; DB 4; Length 421;
Best Local Similarity 51.1%; Pred. No. 0.00023;
Matches 159; Conservative 0; Mismatches 143; Indels 9; Gaps 1;

QY 238 ATTTCTGCCTACTTTTCCCTTCTGCTTCTGTTACTACAAATAGTCATTGCATGCA 297
Db 352 AGTTTTCATTCTTCTCGGGCTGCTTATCTGGGAAGCCTTCAAAGAATTGTTACATC 293
QY 298 ATGCTGAGGCCCGCAATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACAC 357
Db 292 ATGGCATGCGAGGACAGGAAGACACAGTACTCTTTGGAAGTCCACCTCGTTGCTCTGTG 233
QY 358 TGGTCCAGGTCCTTCATTATTTGTCACAGCCAGAGGGTCTTTTGAATTTCCAAAAT 417
Db 232 CTGTCCAAAGTTGCTCATCAGCTTCTGGAAGCAGCTTCATCTGCTCTTTTCCCAAGAAG 173
QY 418 CCAGGGAACCTCTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGCCCTTTATCC 477
Db 172 CTGGCAGCTCCCGGTGACAGCTCTTTAGTTCTGACTTGTGAGCTTGAACCTTGCA 113
QY 478 -----CCAGCGAATTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATT 528
Db 112 CCCTCTTTGGCCGAGTACTTGTGAAGGTGGACACCATCATCCAGGGCCTTCTCCAGA 53
QY 529 TGAGATGGCAT 539
Db 52 GGGCAGCCCAT 42

RESULT 26
US-09-606-421B-308/c
; Sequence 308, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.

; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606.421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 308
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-606-421B-308

Query Match 4.5%; Score 54.2; DB 4; Length 421;
Best Local Similarity 51.1%; Pred. No. 0.00023;
Matches 159; Conservative 0; Mismatches 143; Indels 9; Gaps 1;

QY 238 ATTTCTGCCTACTTTTCCCTTCTGCTTCTGTTACTACAAATAGTCATTGCATGCA 297
Db 352 AGTTTTCATTCTTCTCGGGCTGCTTATCTGGGAAGCCTTCAAAGAATTGTTACATC 293
QY 298 ATGCTGAGGCCCGCAATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACAC 357
Db 292 ATGGCATGCGAGGACAGGAAGACACAGTACTCTTTGGAAGTCCACCTCGTTGCTCTGTG 233
QY 358 TGGTCCAGGTCCTTCATTATTTGTCACAGCCAGAGGGTCTTTTGAATTTCCAAAAT 417
Db 232 CTGTCCAAAGTTGCTCATCAGCTTCTGGAAGCAGCTTCATCTGCTCTTTTCCCAAGAAG 173
QY 418 CCAGGGAACCTCTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGCCCTTTATCC 477
Db 172 CTGGCAGCTCCCGGTGACAGCTCTTTAGTTCTGACTTGTGAGCTTGAACCTTGCA 113
QY 478 -----CCAGCGAATTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATT 528
Db 112 CCCTCTTTGGCCGAGTACTTGTGAAGGTGGACACCATCATCCAGGGCCTTCTCCAGA 53
QY 529 TGAGATGGCAT 539
Db 52 GGGCAGCCCAT 42

RESULT 27
US-09-630-940B-308/c
; Sequence 308, Application US/09630940B
; Patent No. 6737514
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C10
; CURRENT APPLICATION NUMBER: US/09/630.940B
; CURRENT FILING DATE: 2000-08-02
; NUMBER OF SEQ ID NOS: 367
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 308
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-630-940B-308

RESULT 32
US-08-468-946-3/c
; Sequence 3, Application US/08468946
; Patent No. 5843686
; GENERAL INFORMATION:
; APPLICANT: Zain, Sayeeda
; APPLICANT: Lukanidin, Eugene
; TITLE OF INVENTION: DIAGNOSIS OF METASTATIC CANCER BY
; TITLE OF INVENTION: THE MTS-1 GENE
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLI, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: United States
; ZIP: 11530
; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,946
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/190,560
; FILING DATE: 31-JAN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S.
; REGISTRATION NUMBER: 31,346
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 579 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; US-08-468-946-3

Query Match 4.5%; Score 54.2; DB 2; Length 579;
Best Local Similarity 51.1%; Pred. No. 0.00026;
Matches 159; Conservative 0; Mismatches 143; Indels 9; Gaps 1;

QY 238 ATTCTGCGCTACTCTTCTCCCTCTGCTTCAATGTGACTACAAATAGTCAATGCGATGCA 297
Db |||||
446 AGTTTCAATTTCTCTCGGGCTGCTTAATCTGGAAGCCTTCAAGAATTCGTTACACATC 387

QY 298 ATGTGTAGGCGCCGAATTAGGGAAGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACAC 357
Db |||||
386 ATGGCGATGACGACAGGAGACACAGTACTCTTGGAGTCCACCTGTTGCCCTGTTG 327

QY 358 TGGTCCAGGTCCTTCATATTTTGTTCACAGCAGAGGGTCTTTTGAATTTCCAAAAAT 417
Db |||||
326 CTGTCCAAAGTGTCTCATCAGCTTCTGGAAGCAGCTTCTGTCTCTTTTCCCAAGAAG 267

QY 418 CCAGGGAACCTCTTTCCATGAGTACTCTCAGTCTCTCTTTGTTAAGTACGCTTTATCC 477
Db |||||
266 CTGGGAGCTCCCGGGTCAGCAGCTCTTTAGTTCTGACTTGTGAGCTTGAACCTTGTC 207

QY 478 -----CCAGCGAATTTGAAATGTAAACATCATGTTTCCATGGCGGTGTTCCATT 528
Db |||||
206 CCCTCTTTGCCGAGTACTTGTGGAAGTGGACACCATCATCCAGGGCTTCTCCAGA 147

QY 529 TGAGATGGCAT 539
Db |||||
146 GGGCAGCCCAT 136

RESULT 33
US-08-468-942-3/c
; Sequence 3, Application US/08468942
; Patent No. 5965360
; GENERAL INFORMATION:
; APPLICANT: Zain, Sayeeda
; APPLICANT: Lukanidin, Eugene
; TITLE OF INVENTION: DIAGNOSIS OF METASTATIC CANCER BY
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: United States

; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,942
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/190,560
; FILING DATE: 31-JAN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 78792Y
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 579 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; US-08-468-942-3

Query Match 4.5%; Score 54.2; DB 2; Length 579;
Best Local Similarity 51.1%; Pred. No. 0.00026;
Matches 159; Conservative 0; Mismatches 143; Indels 9; Gaps 1;

QY 238 ATTCTGCGCTACTCTTCTCCCTCTGCTTCAATGTGACTACAAATAGTCAATGCGATGCA 297
Db |||||
446 AGTTTCAATTTCTCTCGGGCTGCTTAATCTGGAAGCCTTCAAGAATTCGTTACACATC 387

QY 298 ATGTGTAGGCGCCGAATTAGGGAAGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACAC 357
Db |||||
386 ATGGCGATGACGACAGGAGACACAGTACTCTTGGAGTCCACCTGTTGCCCTGTTG 327

QY 358 TGGTCCAGGTCCTTCATATTTTGTTCACAGCAGAGGGTCTTTTGAATTTCCAAAAAT 417
Db |||||
326 CTGTCCAAAGTGTCTCATCAGCTTCTGGAAGCAGCTTCTGTCTCTTTTCCCAAGAAG 267

QY 418 CCAGGGAACCTCTTTCCATGAGTACTCTCAGTCTCTCTTTGTTAAGTACGCTTTATCC 477
Db |||||
266 CTGGGAGCTCCCGGGTCAGCAGCTCTTTAGTTCTGACTTGTGAGCTTGAACCTTGTC 207

QY 478 -----CCAGCGAATTTGAAATGTAAACATCATGTTTCCATGGCGGTGTTCCATT 528
Db |||||
206 CCCTCTTTGCCGAGTACTTGTGGAAGTGGACACCATCATCCAGGGCTTCTCCAGA 147

QY 529 TGAGATGGCAT 539
Db |||||
146 GGGCAGCCCAT 136

RESULT 34
US-09-298-625-3/c
; Sequence 3, Application US/09298625
; Patent No. 6638504
; GENERAL INFORMATION:
; APPLICANT: Lukanidin, Eugene
; TITLE OF INVENTION: DIAGNOSIS OF METASTATIC CANCER BY THE MTS-1 GENE
; FILE REFERENCE: 78792YAI11-Z
; CURRENT APPLICATION NUMBER: US/09/298,625
; CURRENT FILING DATE: 1999-04-23
; PRIOR APPLICATION NUMBER: 08/468,942
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/190,560
; PRIOR FILING DATE: 1994-01-31

Qy	601	CTGGACCGCGGGCGGAGAGCGCGCGCGGGCTGTGCGCCTTCTTACTAGTCGTGGCG	660
Db	1651	CGGGACCGCGCCACGAGAGGGAGGGCGCGGGCGCGCAACGAGCAGCAAACTCGGAGC	1710
Qy	661	GGGTGGGTAGAGAGGAGCGCGCGGAGCGGGAGGAGCGCTGGCGGGCGCTCGGCAGGGCG	720
Db	1711	GGAGAGATCGAAGGGCTAGTGGCGTGTGGGGCGCGAGCCGAGGCGCGGGTGGAGGGGTTC	1770
Qy	721	CTCCCCAGCCCTGTCTCTCTCCCCCTTCTCTGTCGCCCGCACTCCCGGACCCCGGGCGCG	780
Db	1771	CGCGCGTCTCGCGCGCCCTCTCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	1830
Qy	781	CGGCGCCAGCCCTGCGCTCGCTCCCGGACCCGCGCTCGCAGAGGCTCTCGCC	830
Db	1831	CCGCGCGCGCGCGCCCTCTCGCGCGCGCGCGCGCGCGCGCTCTCTCTCC	1880
RESULT 36			
US-08-190-560-1/c			
; Sequence 1, Application US/08190560			
; Patent No. 5798257			
; GENERAL INFORMATION:			
; APPLICANT: Zain, Sayeeda			
; APPLICANT: Lukanidin, Eugene			
; TITLE OF INVENTION: DIAGNOSIS OF METASTATIC CANCER BY			
; TITLE OF INVENTION: THE MTS-1 GENE			
; NUMBER OF SEQUENCES: 9			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER			
; STREET: 400 Garden City Plaza			
; CITY: Garden City			
; STATE: New York			
; COUNTRY: United States			
; ZIP: 11530			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Floppy disk			
; COMPUTER: IBM PC compatible			
; OPERATING SYSTEM: PC-DOS/MS-DOS			
; SOFTWARE: Patent In Release #1.0, Version #1.25			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/08/190,560			
; FILING DATE:			
; CLASSIFICATION: 435			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Digiglio, Frank S.			
; REGISTRATION NUMBER: 31,346			
; REFERENCE/DOCKET NUMBER: 7879ZY			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: (516) 742-4343			
; TELEFAX: (516) 742-4366			
; TELEX: 230 901 SANS UR			
; INFORMATION FOR SEQ ID NO: 1:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 303 base pairs			
; TYPE: nucleic acid			
; STRANDEDNESS: double			
; TOPOLOGY: linear			
; MOLECULE TYPE: cDNA			
; US-08-190-560-1			
Query Match 4.4%; Score 53.2; DB 1; Length 303;			
Best Local Similarity 51.3%; Pred. No. 0.00036;			
Matches 155; Conservative 0; Mismatches 138; Indels 9; Gaps 1;			
Qy	247	TACTTCTTTCCCTTCGTTCATGTGTACTACAAAATAGCTATTGCATCGAATGGTGAGG	306
Db	302	TTCTTCTCGGTGCTTATCTGGAAGCCCTTCAAGAATTGTTACACATCATGGCGATG	243
Qy	307	CCGCGAATTAGGAAAGAAGCTCTGGAGCCCACTTTGCCATCTCTACACTGGTCCAGG	366
Db	242	CAGGACAGGAAGACACAGTACTCTTTGGAAGTCCACCTCGTTGCTGTGCTGTCCAAAG	183

QY 367 TCCTTCATTATTTGTCCAGCAGGAGGCTCTTTTGTATTTTCCAAATCCAGGGAAC 426
Db 182 TTGCTCATAGCTTCTGGAAGCAGCTTCACTGCTCTTTTCCCAAGAGCTGGGAGC 123
QY 427 TCCTTTTCCATGAGTACTCTCAGTCTCTCTTTGTTAAAGTAGGCTTTATCCCCAGC 482
Db 122 TCCGGGTGACAGCTCTTTTAGCTCTGAGCTTGAACCTTGTCACTCTTTG 63
QY 483 -----GAATTTGGAATGAAATCATGCTTTCCATGGCGGTTCCATTTGAGATGGC 537
Db 62 CCGAGTACTTGTGGAAGGTGGACCATCATCCAGGGCCCTTCTCCAGAGGGCAGCC 3
QY 538 AT 539
Db 2 AT 1

RESULT 37

US-08-469-277-1/c
; Sequence 1, Application US/08469277
; Patent No. 5801142
; GENERAL INFORMATION:
; APPLICANT: Zain, Sayeeda
; APPLICANT: Lukanidin, Eugene
; TITLE OF INVENTION: DIAGNOSIS OF METASTATIC CANCER BY
; TITLE OF INVENTION: THE MTS-1 GENE
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: United States
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/469,277
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/190,560
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 7879ZY
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 303 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-469-277-1

Query Match 4.4%; Score 53.2; DB 1; Length 303;
Best Local Similarity 51.3%; Pred. No. 0.00036;
Matches 155; Conservative 0; Mismatches 138; Indels 9; Gaps 1;
QY 247 TACTTCTTTCCCTTCTGCTTCACTGTACTACAAATAGTCATTGTCATGCAATGGTGAGG 306
Db 302 TTCTTCTGGGCTGCTTATCTGGAAGCCCTTCAAGNAATTCGTTACACATCATGGCGATG 243
QY 307 CCGCAATTAGGGAAGAGAGCTCTGTGAAGCCACCTTTGTCATCTCTTACATCGTCCAGG 366

Db 242 CAGGACAGGAAGACACAGTACTCTTGGAAGTCCACCTCGTTGCTCTGCTTCCAAG 183
QY 367 TCCTTCATTATTTGTCCAGCAGGAGGCTCTTTTGTATTTTCCAAATCCAGGGAAC 426
Db 182 TTGCTCATAGCTTCTGGAAGCAGCTTCACTGCTCTTTTCCCAAGAGCTGGGAGC 123
QY 427 TCCTTTTCCATGAGTACTCTCAGGCTCTCTTTGTTAAAGTAGGCTTTATCCCCAGC 482
Db 122 TCCGGGTGAGCAGCTCTTTTAGCTCTGAGCTTGAACCTTGTCACTCTTTG 63
QY 483 -----GAATTTGGAATGAAATCATGCTTTCCATGGCGGTTCCATTTGAGATGGC 537
Db 62 CCGAGTACTTGTGGAAGGTGGACCATCATCCAGGGCCCTTCTCCAGAGGGCAGCC 3
QY 538 AT 539
Db 2 AT 1

RESULT 38

US-08-468-946-1/c
; Sequence 1, Application US/08468946
; Patent No. 5843686
; GENERAL INFORMATION:
; APPLICANT: Zain, Sayeeda
; APPLICANT: Lukanidin, Eugene
; TITLE OF INVENTION: DIAGNOSIS OF METASTATIC CANCER BY
; TITLE OF INVENTION: THE MTS-1 GENE
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: United States
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,946
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/190,560
; FILING DATE: 31-JAN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 7879ZY
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 303 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-468-946-1

Query Match 4.4%; Score 53.2; DB 2; Length 303;
Best Local Similarity 51.3%; Pred. No. 0.00036;
Matches 155; Conservative 0; Mismatches 138; Indels 9; Gaps 1;
QY 247 TACTTCTTTCCCTTCTGCTTCACTGTACTACAAATAGTCATTGTCATGCAATGGTGAGG 306
Db 302 TTCTTCTGGGCTGCTTATCTGGAAGCCCTTCAAGNAATTCGTTACACATCATGGCGATG 243

Qy 538 AT 539
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Db 2 AT 1

RESULT 41

US-07-662-198B-1/c
; Sequence 1, Application US/07662198B
; Patent No. 5262528
; GENERAL INFORMATION:
; APPLICANT: Sager, Ruth
; APPLICANT: Lee, Sam W.
; APPLICANT: Tomasetto, Catherine
; TITLE OF INVENTION: CANCER DIAGNOSIS AND THERAPY
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)
; SOFTWARE: WordPerfect (Version 5.0)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07662,198B
; FILING DATE: 19910228
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00530/049001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 452
; TYPE: NUCLEIC ACID
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-07-662-198B-1

Query Match 4.4%; Score 52.8; DB 1; Length 452;
Best Local Similarity 54.0%; Pred. No. 0.00055;
Matches 108; Conservative 0; Mismatches 92; Indels 0; Gaps 0;
Qy 280 AATAGTCATTGTCATGCAATGGTGGAGCCCGCAATTAGGGAAGAAAGAGCTCTGGAAGCCC 339
|||
Db 316 AAGAAGTCATTGCACATGACAGTGATGAGTCCAGGAAACAGCATACTCTGGAAGTCC 257
Qy 340 ACTTTGCCATCTCTACACTGGTCCAGGTCCTTCAATTATTTTGTCCACAGCCAGAGGGTCT 399
|||
Db 256 ACCTGTGGTGCACGTGTTCTCATCCAGGTGGCCATCAGCTTCTTCAGCCCTCTCATCC 197
Qy 400 TTTTGTATTTTCCAAAATCCAGGAACTCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTT 459
|||
Db 196 ACTTTCTCCCCCAAAAGCTGGGAGCTCTCTTGTGCAGAAAGTCTCTTTCATTTCCCTTTA 137
Qy 460 GTTAAGTAGCCTTTATCCCC 479
|||
Db 136 CTCAGCTTGAACCTTGTGCC 117

RESULT 42

US-08-322-742-1/c

; Sequence 1, Application US/08322742
; Patent No. 5688641
; GENERAL INFORMATION:
; APPLICANT: Sager, Ruth
; TITLE OF INVENTION: CANCER DIAGNOSIS AND THERAPY
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/322,742
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/938,823
; FILING DATE: September 1, 1992
; APPLICATION NUMBER: 07/844,296
; FILING DATE: February 28, 1992
; APPLICATION NUMBER: 07/552,216
; FILING DATE: February 28, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00530/048003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 452
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-322-742-1
Query Match 4.4%; Score 52.8; DB 1; Length 452;
Best Local Similarity 54.0%; Pred. No. 0.00055;
Matches 108; Conservative 0; Mismatches 92; Indels 0; Gaps 0;
Qy 280 AATAGTCATTGTCATGCAATGGTGGAGCCCGCAATTAGGGAAGAAAGAGCTCTGGAAGCCC 339
|||
Db 316 AAGAAGTCATTGCACATGACAGTGATGAGTCCAGGAAACAGCATACTCTGGAAGTCC 257
Qy 340 ACTTTGCCATCTCTACACTGGTCCAGGTCCTTCAATTATTTTGTCCACAGCCAGAGGGTCT 399
|||
Db 256 ACCTGTGGTGCACGTGTTCTCATCCAGGTGGCCATCAGCTTCTTCAGCCCTCTCATCC 197
Qy 400 TTTTGTATTTTCCAAAATCCAGGAACTCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTT 459
|||
Db 196 ACTTTCTCCCCCAAAAGCTGGGAGCTCTCTTGTGCAGAAAGTCTCTTTCATTTCCCTTTA 137
Qy 460 GTTAAGTAGCCTTTATCCCC 479
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Db 136 CTCAGCTTGAACCTTGTGCC 117
RESULT 43
US-09-702-705-1585/c
; Sequence 1585, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.


```

; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darriek
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702.705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1585
; LENGTH: 392
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-702-705-1585

Query Match      4.4%; Score 52.6; DB 4; Length 392;
Best Local Similarity 50.8%; Pred. No. 0.00058;
Matches 158; Conservative 0; Mismatches 144; Indels 9; Gaps 1;

Qy      238  ATTTCTGCCTACTCTTTTCCCTTCTGCTTCATGTGTACTACAAATAGTCAATTCGATGCA 297
Db      364  AGTTTTCAATTTCTTCGGGCTGCTTATCTGGGAAGCCTTCAAAGAATTGTTACACATC 305

Qy      298  ATGTGTAGGCCCGCAATTAGGGAAAAAGAAAGCTCTGGGAAGCCCACTTTGCCCATCTCTACAC 357
Db      304  ATGGGATGACGAGGACAGACAGTACTCTTAGAAGTCCACCTCGTTGTCCTGTG 245

Qy      358  TGTGTCCAGGTCCCTTCATATATTTTGTCCACAGCCAGAGGGTCTTTTGATTTTCCAAAAT 417
Db      244  CTGTCCAAAGTTGCTCATCAGCTTCTGGAAGCAGCTTCATCTGCTCTTTTCCCCAAGAAG 185

Qy      418  CCAGGGAATCCTTTTCCATGAGTACTCTCAGGTCCCTCTTTGTTAAGTAGCCCTTATCC 477
Db      184  CTGGGCAGCTCCCGGGTCAGAGTCTCTTTAGTTGTTGAGCGCTTGAACCTTGCA 125

Qy      478  CCAGC-----GAATTTTGTGAATGTAAACATCATGGTTTCCATGGCGGTGTTCCATT 528
Db      124  CCCTCTTTGCCGAGTAGTCTTGTGGNAGGTGGACACCATCATCATCCAGGGCCTTCCAGA 65

Qy      529  TGAGATGGCAT 539
Db      64  GGGCAGCCAT 54

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RESULT 44
US-09-736-457-1585/c
; Sequence 1585, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, AiJun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1585
; LENGTH: 392
; TYPE: DNA

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; ORGANISM: Homo sapiens
US-09-736-457-1585

Query Match      4.4%; Score 52.6; DB 4; Length 392;
Best Local Similarity 50.8%; Pred. No. 0.00058;
Matches 158; Conservative 0; Mismatches 144; Indels 9; Gaps 1

Qy 238 ATTCTCGCTACTCTTTCCCTCTGCTTCATGTGTACTACAAATAGTCAATGCGATGCA 297
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
364 AGTTTTTCATTTCTTCTGGGCTGTTATCTGGGAAGCCTTCAAGAATTCGTTACACATC 305
Qy 298 ATGCTGAGGCCGCAATTAGGAAAAGAGCTCTGGAAGCCACTTTGCCATCTCTACAC 357
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
304 ATGGCGATGAGGACAGGAAGACACAGTACTCTTAGAAGTCCACCTCGTTGTCCTGTG 245
Qy 358 TGGTCCAGGTCTCTTCATTTATTTTCTCCACAGCCAGAGGGTCTTTTGATTTTCCAAAAT 417
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
244 CTGTCCAAAGTGCTCATCAGCTTCTGGAAGCAGCTTCACTGTCCTTTTCCCCAAGAG 185
Qy 418 CCAGGGAACCTCTTTTCCATGAGTACTCTCAGGTCCTCTTTGTTAAAGTACGCTTTATCC 477
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
184 CTGGGCAGCTCCCGGGTCAGCAGCTCCTTTAGTTCTGACTTGTGTAGCTTGAATCTGCA 125
Qy 478 CCAGC-----GAATTTGTGAATGTAAACATCATGTTTCCATGGCGGTGTTCATT 528
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
124 CCCTCTTTGCCGAGTAGTCTTTGTGAAGGTGGACCATCATCCAGGGCCTTCTCCAGA 65
Qy 529 TGAGATGGCAT 539
Db      ||||| ||||| |||||
64 GGGCAGCCCAT 54

RESULT 45
US-09-124B-1585/c
; Sequence 1585, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1585
; LENGTH: 392
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-614-124B-1585

Query Match      4.4%; Score 52.6; DB 4; Length 392;
Best Local Similarity 50.8%; Pred. No. 0.00058;
Matches 158; Conservative 0; Mismatches 144; Indels 9; Gaps 1

Qy 238 ATTCTCGCTACTCTTTCCCTCTGCTTCATGTGTACTACAAATAGTCAATGCGATGCA 297
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
364 AGTTTTTCATTTCTTCTGGGCTGTTATCTGGGAAGCCTTCAAGAATTCGTTACACATC 305
Qy 298 ATGCTGAGGCCGCAATTAGGAAAAGAGCTCTGGAAGCCACTTTGCCATCTCTACAC 357
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
304 ATGGCGATGAGGACAGGAAGACACAGTACTCTTAGAAGTCCACCTCGTTGTCCTGTG 245
Qy 358 TGGTCCAGGTCTCTTCATTTATTTTCTCCACAGCCAGAGGGTCTTTTGATTTTCCAAAAT 417
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
244 CTGTCCAAAGTGCTCATCAGCTTCTGGAAGCAGCTTCACTGTCCTTTTCCCCAAGAG 185

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Qy	418	CCAGGGAACCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGCCTTTATCC	477
Db	184	CTGGGCAGCTCCCGGTCAGCAGCTCCTTTAGTTCTGACTTGTGACTTGAACCTGTCA	125
Qy	478	CCAGC-----GAAATTGTGAAATGTAAACATCATGGTTTCCATGGCGTGTTCATT	528
Db	124	CCCTCTTTGCCCGAGTACTTGTGGAAGGTGGACACCATCACATCCAGGGCCTTCTCCAGA	65
Qy	529	TGAGATGGCAT	539
Db	64	GGCACGCCAT	54

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Job time : 247 secs

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OM nucleic - nucleic search, using sw model

Run on: August 17, 2005, 22:20:57 ; Search time 793 Seconds
(without alignments)
9823.210 Million cell updates/sec

Title: US-10-735-577-16
Perfect score: 1199
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 7316285 seqs, 3248459403 residues

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

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Maximum Match 100%

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- 11: /cgn2_6/ptodata/2/pubpna/US09D_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
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- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq.*
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- 20: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq.*
- 21: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq.*
- 22: /cgn2_6/ptodata/2/pubpna/US10J_PUBCOMB.seq.*
- 23: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 24: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1199	100.0	1199	19	US-10-735-577-16
2	1199	100.0	1199	19	US-10-735-577-16
3	703.4	58.7	1124	13	US-10-044-090-1
4	634	52.9	1893	9	US-09-925-301-586
5	634	52.9	1893	10	US-09-997-003-13
6	601	50.1	649	9	US-09-880-107-2350
7	601	50.1	649	17	US-10-172-118-847

c 8	601	50.1	649	18	US-10-342-887-847	Sequence 847, App
c 9	601	50.1	649	20	US-10-487-337-7	Sequence 7, Appli
c 10	601	50.1	649	21	US-10-956-157-979	Sequence 979, App
c 11	601	50.1	649	21	US-10-956-157-979	Sequence 6214, Ap
c 12	595.8	49.7	663	17	US-10-264-049-1114	Sequence 1114, Ap
c 13	577.4	48.2	608	13	US-10-027-632-261591	Sequence 261591,
c 14	577.4	48.2	608	17	US-10-027-632-261591	Sequence 261591,
c 15	537	44.8	571	9	US-09-920-300A-890	Sequence 890, App
c 16	537	44.8	571	13	US-10-033-528-890	Sequence 890, App
c 17	537	44.8	571	16	US-10-099-926-890	Sequence 890, App
c 18	537	44.8	571	22	US-10-961-527-890	Sequence 890, App
c 19	516	43.0	538	17	US-10-242-535A-47618	Sequence 47618, A
c 20	516	43.0	538	18	US-10-085-783A-47618	Sequence 1, Appli
c 21	485.2	40.5	2016	10	US-09-992-095B-1	Sequence 1, Appli
c 22	485.2	40.5	2016	10	US-09-992-095B-1	Sequence 1, Appli
c 23	485.2	40.5	2016	10	US-09-999-570-1	Sequence 1, Appli
c 24	485.2	40.5	2016	10	US-10-000-489-1	Sequence 1, Appli
c 25	485.2	40.5	2016	14	US-10-000-489-1	Sequence 1, Appli
c 26	485.2	40.5	2016	14	US-10-000-489-1	Sequence 1, Appli
c 27	485.2	40.5	2016	16	US-10-154-678-1	Sequence 1, Appli
c 28	485.2	40.5	2016	16	US-10-001-142-1	Sequence 1, Appli
c 29	485.2	40.5	2016	21	US-10-838-854-1	Sequence 1, Appli
c 30	471.6	39.3	482	17	US-10-242-535A-46392	Sequence 46392, A
c 31	471.6	39.3	482	18	US-10-085-783A-46392	Sequence 46392, A
c 32	461.4	38.5	472	17	US-10-242-535A-57930	Sequence 57930, A
c 33	461.4	38.5	472	18	US-10-085-783A-57930	Sequence 49122, A
c 34	448	37.4	480	17	US-10-085-783A-49122	Sequence 49122, A
c 35	448	37.4	480	18	US-10-085-783A-56036	Sequence 56036, A
c 36	446.4	37.2	474	17	US-10-242-535A-56036	Sequence 56036, A
c 37	446.4	37.2	474	18	US-10-085-783A-56036	Sequence 56036, A
c 38	434.4	36.2	448	17	US-10-242-535A-56504	Sequence 56504, A
c 39	434.4	36.2	448	18	US-10-085-783A-56504	Sequence 21508, A
c 40	429.4	35.8	477	10	US-09-918-995-12556	Sequence 12556, A
c 41	422	35.2	466	10	US-09-918-995-12556	Sequence 26, Appl
c 42	411	34.3	441	10	US-09-997-003-26	Sequence 2418, Ap
c 43	396.2	33.0	632	15	US-10-106-698-2418	Sequence 45565, A
c 44	377.4	31.5	392	17	US-10-242-535A-45565	Sequence 45565, A
c 45	377.4	31.5	392	18	US-10-085-783A-45565	Sequence 45565, A

ALIGNMENTS

RESULT 1

US-10-735-577-16
; Sequence 16, Application US/10735577
; Publication No. US20040142897A1
; GENERAL INFORMATION:
; APPLICANT: Walsman, David M.
; TITLE OF INVENTION: Compositions and Methods for Inhibiting Tumor Growth and Metastasis
; FILE REFERENCE: ME03-009
; CURRENT APPLICATION NUMBER: US/10/735,577
; CURRENT FILING DATE: 2003-12-12
; PRIOR APPLICATION NUMBER: US 60/433,140
; PRIOR FILING DATE: 2002-12-13
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: Microsoft Word
; SEQ ID NO 16
; LENGTH: 1199
; TYPE: DNA
; ORGANISM: mammalian
US-10-735-577-16

Query Match	100.0%	Score 1199;	DB 19;	Length 1199;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1199;	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;
Qy	1	GGAACAAAAAAGAACTTTATTATTGAGGCGAAGGGGATGCAAAACAAATACAAAAATCAA	60	
Db	1	GGAACAAAAAAGAACTTTATTATTGAGGCGAAGGGGATGCAAAACAAATACAAAAATCAA	60	
Qy	61	AAGCTTAATCTGGATTATTAACCTTTCTCTGCTGCTCAAAATGAGAGTTAGATTTTATT	120	

Db 61 AAGCTTATCTGGTATTAAACTTTTCTCTCTGCTGCAAAATGAGAGTTAGATTTTATT 120
Qy 121 TTTACATTTGCTAGTCTGCTGATCTGCTCATGAATCCCTTCTATGGGGAAGCTGTGG 180
Db 121 TTTACATTTGCTAGTCTGCTGATCTGCTCATGAATCCCTTCTATGGGGAAGCTGTGG 180
Qy 181 GCAGATTCCTTAAAGGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAT 240
Db 181 GCAGATTCCTTAAAGGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAT 240
Qy 241 TCTGCTACTCTTTCCCTTCTGCTTCATGCTACTACAAAATAGTCAATTCATGCAATG 300
Db 241 TCTGCTACTCTTTCCCTTCTGCTTCATGCTACTACAAAATAGTCAATTCATGCAATG 300
Qy 301 GTGAGGCCCAATTAGGGAAGAAAGCTCTGGAGGCCACTTTGCCATCTCTACACTGG 360
Db 301 GTGAGGCCCAATTAGGGAAGAAAGCTCTGGAGGCCACTTTGCCATCTCTACACTGG 360
Qy 361 TCCAGGTCCTTCATTTATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTCCAAAATCCA 420
Db 361 TCCAGGTCCTTCATTTATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTCCAAAATCCA 420
Qy 421 GGGAACTCTCTTTCCATGATCTCTCAGTCTCTCTTTTGTAAAGTACCTTTATCCCA 480
Db 421 GGGAACTCTCTTTCCATGATCTCTCAGTCTCTCTTTTGTAAAGTACCTTTATCCCA 480
Qy 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGGCTTCCATTTGAGATGGCAT 540
Db 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGGCTTCCATTTGAGATGGCAT 540
Qy 541 TTGCTGTGGTCCGTTGAAGCCTTTGGCCAGCGCGGCGAGCGCTGGGCGAGCTGGGCGAG 600
Db 541 TTGCTGTGGTCCGTTGAAGCCTTTGGCCAGCGCGGCGAGCGCTGGGCGAGCTGGGCGAG 600
Qy 601 CTGACCGCGGGGAGAGCGAGCGCGGCGGCTGTGCGGCTTCTTCTAGTACGTGGCG 660
Db 601 CTGACCGCGGGGAGAGCGAGCGCGGCGGCTGTGCGGCTTCTTCTAGTACGTGGCG 660
Qy 661 GGGTGGGTAGAGGAGCGCGGAGCGGAGCGGAGCGGAGCGGCTGGGCGGCTGGGCGG 720
Db 661 GGGTGGGTAGAGGAGCGCGGAGCGGAGCGGAGCGGAGCGGCTGGGCGGCTGGGCGG 720
Qy 721 CTCCCCAGCCCTGCTCTCCCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
Db 721 CTCCCCAGCCCTGCTCTCTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
Qy 781 CGGCCACGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Db 781 CGGCCACGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Qy 841 AGAGCGTTCTGTAAACTCTCTTCTAGTAAAGCGGTCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Db 841 AGAGCGTTCTGTAAACTCTCTTCTAGTAAAGCGGTCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Qy 901 ATCCCCACCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
Db 901 ATCCCCACCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
Qy 961 GAACCCGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
Db 961 GAACCCGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
Qy 1021 GGCACCTAGGGTCTAGGAATTTACTTCTGCTAGTAAAGCGGTCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
Db 1021 GGCACCTAGGGTCTAGGAATTTACTTCTGCTAGTAAAGCGGTCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
Qy 1081 TCCTATCGAATCTCAGAGGCACTATCAGATTTAGCCCTAGGAGTCCGCTCTGGGGTCTCGG 1140
Db 1081 TCCTATCGAATCTCAGAGGCACTATCAGATTTAGCCCTAGGAGTCCGCTCTGGGGTCTCGG 1140
Qy 1141 CGGCTCGGCACTGAGGCGGCGCACTCTCCCAAGAGCGGGCTTCCCGCCCGCCACCGG 1199
Db 1141 CGGCTCGGCACTGAGGCGGCGCACTCTCCCAAGAGCGGGCTTCCCGCCCGCCACCGG 1199

RESULT 2

US-10-735-577-17/c
; Sequence 17, Application US/10735577
; Publication No. US20040142897A1
; GENERAL INFORMATION:
; APPLICANT: Waisman, David M.
; TITLE OF INVENTION: Compositions and Methods for Inhibiting Tumor Growth and Metastasis
; FILE REFERENCE: ME03-009
; CURRENT APPLICATION NUMBER: US/10/735,577
; CURRENT FILING DATE: 2003-12-12
; PRIOR APPLICATION NUMBER: US 60/433,140
; PRIOR FILING DATE: 2002-12-13
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: Microsoft Word
; SEQ ID NO 17
; LENGTH: 1199
; TYPE: DNA
; ORGANISM: mammalian
US-10-735-577-17

Query Match 100.0%; Score 1199; DB 19; Length 1199;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACCTAAAAAGAACTTTTATTATTGAGGGCAAGGGATGCAAAACAATACAAAAATCAA 60
Db 1199 GGAACCTAAAAAGAACTTTTATTATTGAGGGCAAGGGATGCAAAACAATACAAAAATCAA 1140
Qy 61 AAGCTTATCTGGTATTAACTTTTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db 1139 AAGCTTATCTGGTATTAACTTTTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
Qy 121 TTTACATTTGCTAAAGTGTCTGATCTGCTCATGAAATCCCTTCTATCGGGGAAGCTGTGG 180
Db 1079 TTTACATTTGCTAAAGTGTCTGATCTGCTCATGAAATCCCTTCTATCGGGGAAGCTGTGG 1020
Qy 181 GCAGATTCCTTAAAGCAACCTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAT 240
Db 1019 GCAGATTCCTTAAAGCAACCTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAT 960
Qy 241 TCTGCTACTCTCTTCTCCCTTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
Db 959 TCTGCTACTCTCTTCTCCCTTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Qy 301 GTGAGGCCCAATTAGGGAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db 899 GTGAGGCCCAATTAGGGAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 840
Qy 361 TCCAGGTCCTTCAATTTATTTGTCACAGCCAGAGGGTCTTTTGTATTTCCAAAATCCA 420
Db 839 TCCAGGTCCTTCAATTTATTTGTCACAGCCAGAGGGTCTTTTGTATTTCCAAAATCCA 780
Qy 421 GGGAACTCTCTTTCCATGATCTCTCAGTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
Db 779 GGGAACTCTCTTTCCATGATCTCTCAGTCTCTCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
Qy 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGGCTTCCATTTGAGATGGCAT 540
Db 719 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGGCTTCCATTTGAGATGGCAT 660
Qy 541 TTGCTGTGGTCCGTTGAAGCCTTTGGCCAGCGCGGCGAGCGCTGGGCGAGCTGGGCGAG 600
Db 659 TTGCTGTGGTCCGTTGAAGCCTTTGGCCAGCGCGGCGAGCGCTGGGCGAGCTGGGCGAG 600
Qy 601 CTGAGCGCGGGCGGAGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 660
Db 599 CTGAGCGCGGGCGGAGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 540
Qy 661 GGGTGGGTAGAGGAGCGGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 720
Db 539 GGGTGGGTAGAGGAGCGGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 480

Db 1236 CTGACGCGGGCGGAGAGCGGCGGCGGC 1203

RESULT 6

US-09-880-107-2350/c

; Sequence 2350, Application US/09880107

; Patent No. US20020142981A1

; GENERAL INFORMATION:

; APPLICANT: Horne, Darci T.

; APPLICANT: Vockley, Joseph G.

; APPLICANT: Scherf, Uwe

; APPLICANT: Gene Logic, Inc.

; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer

; FILE REFERENCE: 44921-5028-WO.

; CURRENT APPLICATION NUMBER: US/09/880,107

; CURRENT FILING DATE: 2001-06-14

; PRIOR APPLICATION NUMBER: US 60/211,379

; PRIOR FILING DATE: 2000-06-14

; PRIOR APPLICATION NUMBER: US 60/237,054

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 3950

; SOFTWARE: Patent In Ver. 2.1

; SEQ ID NO 2350

; LENGTH: 649

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; OTHER INFORMATION: Genbank Accession No. US20020142981A1 M38591

US-09-880-107-2350

Query Match 50.1%; Score 601; DB 9; Length 649;

Best Local Similarity 99.7%; Pred. No. 3.7e-167;

Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 1 GGAACCTAAAGAAAGAACTTTATTATTGAGGCAAGGGATGCAACCAATACAAAAATCAA 60

Db 649 GGAACCTAAAGAAAGAACTTTATTATTGAGGCAAGGGATGCAACCAATACAAAAATCAA 590

Qy 61 AAGCTTATCTGTTATTAACCTTTCTCTGCTGTGCAAAATGAGAGTTAGATTTTATT 120

Db 589 AAGCTTATCTGTTATTAACCTTTCTCTGCTGTGCAAAATGAGAGTTAGATTTTATT 530

Qy 121 TTTACATTTGTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGAGCTGTGGG 180

Db 529 TTTACATTTGTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGAGCTGTGGG 470

Qy 181 GCAGATTCCTTAAGCGACCTTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 240

Db 469 GCAGATTCCTTAAGCGACCTTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 411

Qy 241 TCTGCTACTTCTTTCCCTTCTGCTTCTATGTAATACTTATCAGGAGGAGCGAACTGCTCAT 300

Db 410 TCTGCTACTTCTTTCCCTTCTGCTTCTATGTAATACTTATCAGGAGGAGCGAACTGCTCAT 351

Qy 301 GTGAGGCGCGCAATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360

Db 350 GTGAGGCGCGCAATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 291

Qy 361 TCCAGGTCCTTCATTATTGTCACAGCAGAGGCTTTTTCATTTTCCAAAAATCCA 420

Db 290 TCCAGGTCCTTCATTATTGTCACAGCAGAGGCTTTTTCATTTTCCAAAAATCCA 231

Qy 421 GGGAACTCTTTTCCATGAGTACTCTCAGGTCCTCTTTGTTAAGTAGGCTTTTATCCCCA 480

Db 230 GGGAACTCTTTTCCATGAGTACTCTCAGGTCCTCTTTGTTAAGTAGGCTTTTATCCCCA 171

Qy 481 CGGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTTCATTTGAGATGGCAATT 540

Db 170 CGGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTTCATTTGAGATGGCAATT 111

Qy 541 TTGGTGTGTCCTGTTGAAGCCTTGGCGAGCGCGGCGGAGCTGGGCGAG 600

Db 110 TTGGTGTGTCCTGTTGAAGCCTTGG -CGAGCGCGGCGGAGCGCTGGGCGAGCTGGGCGAG 52

Qy 601 CTGACGCGGGCGGAGAGCGGAGCGGAGC 625

Db 51 CTGACGCGGGCGGAGAGCGGAGCGGAGC 27

RESULT 7

US-10-172-118-847/c

; Sequence 847, Application US/10172118

; Publication No. US20030224374A1

; GENERAL INFORMATION:

; APPLICANT: Dai, Hongyue

; APPLICANT: He, Yudong

; APPLICANT: Linsley, Peter

; APPLICANT: Mao, Mao

; APPLICANT: Roberts, Chris

; APPLICANT: Van 't Veer, Laura

; APPLICANT: Van de Vijver, Marc

; APPLICANT: Bernards, Rene

; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients

; FILE REFERENCE: 9301-175-999

; CURRENT APPLICATION NUMBER: US/10/172,118

; CURRENT FILING DATE: 2002-06-14

; PRIOR APPLICATION NUMBER: 60/380,770

; PRIOR FILING DATE: 2002-05-14

; NUMBER OF SEQ ID NOS: 2699

; SEQ ID NO 847

; LENGTH: 649

; TYPE: DNA

; ORGANISM: Homo sapiens

; PUBLICATION INFORMATION:

; DATABASE ACCESSION NUMBER: NM_002966

; DATABASE ENTRY DATE: 2001-06-18

US-10-172-118-847

Query Match 50.1%; Score 601; DB 17; Length 649;

Best Local Similarity 99.7%; Pred. No. 3.7e-167;

Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 1 GGAACCTAAAGAAAGAACTTTATTATTGAGGCAAGGGATGCAACCAATACAAAAATCAA 60

Db 649 GGAACCTAAAGAAAGAACTTTATTATTGAGGCAAGGGATGCAACCAATACAAAAATCAA 590

Qy 61 AAGCTTATCTGTTATTAACCTTTCTCTGCTGTGCAAAATGAGAGTTAGATTTTATT 120

Db 589 AAGCTTATCTGTTATTAACCTTTCTCTGCTGTGCAAAATGAGAGTTAGATTTTATT 530

Qy 121 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAATCCTTCTATGGGGAGCTGTGGG 180

Db 529 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAATCCTTCTATGGGGAGCTGTGGG 470

Qy 181 GCAGATTCCTTAAGCGACCTTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 240

Db 469 GCAGATTCCTTAAGCGACCTTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 411

Qy 241 TCTGCTACTTCTTTCCCTTCTGCTTCTCATGTACTACAAAAATGATCATTCATGCAATG 300

Db 410 TCTGCTACTTCTTTCCCTTCTGCTTCTCATGTACTACAAAAATGATCATTCATGCAATG 351

Qy 301 GTGAGGCGCGCAATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360

Db 350 GTGAGGCGCGCAATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 291

Qy 361 TCCAGGTCCTTCATTATTGTTGTCACAGCAGAGGCTTTTGTGATTTTCCAAAAATCCA 420

Db 290 TCCAGGTCCTTCATTATTGTTGTCACAGCAGAGGCTTTTGTGATTTTCCAAAAATCCA 231

Qy 421 GGGAACTCTTTTCCATGAGTACTCTCAGTCTCTCTCTTTGTTAAGTAGCTTTTATCCCCA 480

Db 230 GGGAACTCTTTTCCATGAGTACTCTCAGTCTCTCTCTTTGTTAAGTAGCTTTTATCCCCA 171

Qy 481 CGGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTTCATTTGAGATGGCAATT 540

Db 110 CGGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTTCATTTGAGATGGCAATT 50

Db 170 GCGAAATTTGTAATGTAACATCATGGTTTCCATGCGGTGTTCCATTGAGATGGCAAT 111
Qy 541 TTGGTGTGGTCCGTTGAAGCCTTGGCCGAGCGCGCGGAGCGTGGCGAGCTGGCGGAG 600
Db 110 TTGGTGTGGTCCGTTGAAGCCTTGG-CGAGCGCGCGGAGCGTGGCGAGCTGGCGGAG 52
Qy 601 CTGGACCGCGGCGGAGAGCGGAGC 625
Db 51 CTGGACCGCGGCGGAGAGCGGAGC 27

RESULT 8

US-10-342-887-847/c
; Sequence 847, Application US/10342887
; Publication No. US20040058340A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van de Veer, Laura Johanna
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-188-999
; CURRENT APPLICATION NUMBER: US/10/342,887
; CURRENT FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/298,918
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/380,710
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: 10/172,118
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 847
; LENGTH: 649
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-342-887-847

Query Match 50.1%; Score 601; DB 18; Length 649;
Best Local Similarity 99.7%; Pred. No. 3.7e-167;
Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 1 GGAACATAAAAGAACCTTTATTATTGAGGCGAAGGGATGCAAAACATAACAAAAATCAA 60
Db 649 GGAACATAAAAGAACCTTTATTATTGAGGCGAAGGGATGCAAAACATAACAAAAATCAA 590
Qy 61 AAGCTTATCTGGTATTTAACTTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 120
Db 589 AAGCTTATCTGGTATTTAACTTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 530
Qy 121 TTTCACATTTGCTAAGTGTCTGATCTCATGAATCCTTTCTATGGGGGAAGCTGTGGG 180
Db 529 TTTCACATTTGCTAAGTGTCTGATCTCATGAATCCTTTCTATGGGGGAAGCTGTGGG 470
Qy 181 GCAGATTCCTTAAGCGACCCCTTTGGGCAACTCTTATCAGGAGGAGCGAAGCTGCTCAAT 240
Db 469 GCAGATTCCTTAAGCGACCCCTTTT-GGACAACTCTTATCAGGAGGAGCGAAGCTGCTCAAT 411
Qy 241 TCTGCTTACTTTCTTCTCTCTCTGCTTGTACTACAAAATAGTCAATGCAATGCAATG 300
Db 410 TCTGCTTACTTTCTTCTCTCTCTGCTTGTACTACAAAATAGTCAATGCAATGCAATG 351
Qy 301 GTGAGGCCCCCAATTAGGGAAGAGAGCTCTGGAAGCCCACTTTGCAATCTCTACACTGG 360
Db 350 GTGAGGCCCCCAATTAGGGAAGAGAGCTCTGGAAGCCCACTTTGCAATCTCTACACTGG 291
Qy 361 TCAGGTCTCTTCAATTTTGTCCACAGCAGAGGGTCTTTTGAATTTCCAAAAATCCA 420
Db 290 TCAGGTCTCTTCAATTTTGTCCACAGCAGAGGGTCTTTTGAATTTCCAAAAATCCA 231

Qy 421 GGGAACTCCTTTTCCATGAGTACTCTCAGTCTCCTCTTGTAAAGTAGCCTTTATCCCCA 480
Db 230 GGGAACTCCTTTTCCATGAGTACTCTCAGTCTCCTCTTGTAAAGTAGCCTTTATCCCCA 171
Qy 481 GCGAATTTGTGAATGTAAACATCATGGTTTCCATGGCGTGTTCCTATTTGAGATGGCAAT 540
Db 170 GCGAATTTGTGAATGTAAACATCATGGTTTCCATGGCGTGTTCCTATTTGAGATGGCAAT 111
Qy 541 TTGGTGTGGTCCGTTGAAGCCTTGGCCGAGCGCGCGGAGCGTGGCGAGCTGGCGGAG 600
Db 110 TTGGTGTGGTCCGTTGAAGCCTTGG-CGAGCGCGCGGAGCGTGGCGAGCTGGCGGAG 52
Qy 601 CTGGACCGCGGCGGAGAGCGGAGC 625
Db 51 CTGGACCGCGGCGGAGAGCGGAGC 27

RESULT 9

US-10-487-337-7/c
; Sequence 7, Application US/10487337
; Publication No. US20040248207A1
; GENERAL INFORMATION:
; APPLICANT: Kenji OKUSE
; APPLICANT: Mark BAKER
; APPLICANT: Louis POON
; APPLICANT: John Nicholas WOOD
; APPLICANT: Misbah MALIK-HALL
; TITLE OF INVENTION: SODIUM CHANNEL REGULATORS AND MODULATORS
; FILE REFERENCE: 117-492 / N.86242A GCW
; CURRENT APPLICATION NUMBER: US/10/487,337
; CURRENT FILING DATE: 2004-02-20
; PRIOR APPLICATION NUMBER: PCT/GB02/03852
; PRIOR FILING DATE: 2002-08-20
; PRIOR APPLICATION NUMBER: GB 0120238.1
; PRIOR FILING DATE: 2001-08-20
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 649
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (112)..(402)
; OTHER INFORMATION:
US-10-487-337-7

Query Match 50.1%; Score 601; DB 20; Length 649;
Best Local Similarity 99.7%; Pred. No. 3.7e-167;
Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 1 GGAACATAAAAGAACCTTTATTATTGAGGCGAAGGGATGCAAAACATAACAAAAATCAA 60
Db 649 GGAACATAAAAGAACCTTTATTATTGAGGCGAAGGGATGCAAAACATAACAAAAATCAA 590
Qy 61 AAGCTTATCTGGTATTTAACTTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 120
Db 589 AAGCTTATCTGGTATTTAACTTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 530
Qy 121 TTTCACATTTGCTAAGTGTCTGATCTCATGAATCCTTTCTATGGGGGAAGCTGTGGG 180
Db 529 TTTCACATTTGCTAAGTGTCTGATCTCATGAATCCTTTCTATGGGGGAAGCTGTGGG 470
Qy 181 GCAGATTCCTTAAGCGACCCCTTTGGGCAACTCTTATCAGGAGGAGCGAAGCTGCTCAAT 240
Db 469 GCAGATTCCTTAAGCGACCCCTTTT-GGACAACTCTTATCAGGAGGAGCGAAGCTGCTCAAT 411
Qy 241 TCTGCTTACTTTCTTCTCTCTCTGCTTGTACTACAAAATAGTCAATGCAATGCAATG 300
Db 410 TCTGCTTACTTTCTTCTCTCTCTGCTTGTACTACAAAATAGTCAATGCAATGCAATG 351
Qy 301 GTGAGGCCCCCAATTAGGGAAGAGAGCTCTGGAAGCCCACTTTGCAATCTCTACACTGG 360

Db 350 GTGAGCGCGCAATTAGGAAAAGAGCTCTGGAAGCCACTTTGCCATCTCTACACTGG 291
Qy 361 TCCAGGTCCTTCATATTTTGCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCA 420
Db 290 TCCAGGTCCTTCATATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCA 231
Qy 421 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTGATTTTCCAAAAATCCA 480
Db 230 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTGATTTTCCAAAAATCCA 171
Qy 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGATGATGGCAAT 540
Db 170 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGATGATGGCAAT 111
Qy 541 TTGTTGTGGTCCGTTGAAGCCTTTGGCCGAGCGCGGGGAGCGCTGGGCGAGCTGGGCGAG 600
Db 110 TTGTTGTGGTCCGTTGAAGCCTTTGG-CCAGCGCGCGGGAGCGCTGGGCGAGCTGGGCGAG 52
Qy 601 CTGACGCGGGCGGAGAGCGGAGC 625
Db 51 CTGACGCGGGCGGAGAGCGGAGC 27

RESULT 10
US-10-956-157-979/c
; Sequence 979, Application US/10956157
; Publication No. US20050118625A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William
; TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
; FILE REFERENCE: 031896-043000 (AM 101081)
; CURRENT APPLICATION NUMBER: US/10/956.157
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 319805
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 979
; LENGTH: 649
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-956-157-979

Query Match 50.1%; Score 601; DB 21; Length 649;
Best Local Similarity 99.7%; Pred. No. 3.7e-167;
Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 1 GGAACCTAAAAAGAACTTTATTTATTTGAGGCAAGGGATGCAACAATACAAAAATCAA 60
Db 649 GGAACCTAAAAAGAACTTTATTTATTTGAGGCAAGGGATGCAACAATACAAAAATCAA 590
Qy 61 AAGCTTATCTGGTATTTAACTTTTCTCTGCTGTGCAAAATGAGAGTTAGATTTTATT 120
Db 589 AAGCTTATCTGGTATTTAACTTTTCTCTGCTGTGCAAAATGAGAGTTAGATTTTATT 530
Qy 121 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGG 180
Db 529 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGG 470
Qy 181 GCAGATTCCTTAAAGGACCTTTGGGACAACTCTTATCAGGAGGAGGAACTGCTCAT 240
Db 469 GCAGATTCCTTAAAGGACCTTTT-GGACAACTCTTATCAGGAGGAGGAACTGCTCAT 411
Qy 241 TCTGCTACTTCTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATGCAATGCAATG 300
Db 410 TCTGCTACTTCTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATGCAATGCAATG 351
Qy 301 GTGAGGCGCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db 350 GTGAGGCGCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 291
Qy 361 TCCAGGTCCTTCATATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCA 420

Db 290 TCCAGGTCCTTCATATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCA 231
Qy 421 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTGATTTTCCAAAAATCCA 480
Db 230 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTGATTTTCCAAAAATCCA 171
Qy 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGATGATGGCAAT 540
Db 170 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGATGATGGCAAT 111
Qy 541 TTGTTGTGGTCCGTTGAAGCCTTTGGCCGAGCGCGGGGAGCGCTGGGCGAGCTGGGCGAG 600
Db 110 TTGTTGTGGTCCGTTGAAGCCTTTGG-CCAGCGCGCGGGAGCGCTGGGCGAGCTGGGCGAG 52
Qy 601 CTGACGCGGGCGGAGAGCGGAGC 625
Db 51 CTGACGCGGGCGGAGAGCGGAGC 27

RESULT 11
US-10-956-157-6214/c
; Sequence 6214, Application US/10956157
; Publication No. US20050118625A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William
; TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
; FILE REFERENCE: 031896-043000 (AM 101081)
; CURRENT APPLICATION NUMBER: US/10/956.157
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 319805
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6214
; LENGTH: 649
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-956-157-6214

Query Match 50.1%; Score 601; DB 21; Length 649;
Best Local Similarity 99.7%; Pred. No. 3.7e-167;
Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 1 GGAACCTAAAAAGAACTTTATTTATTTGAGGCAAGGGATGCAACAATACAAAAATCAA 60
Db 649 GGAACCTAAAAAGAACTTTATTTATTTGAGGCAAGGGATGCAACAATACAAAAATCAA 590
Qy 61 AAGCTTATCTGGTATTTAACTTTTCTCTGCTGTGCAAAATGAGAGTTAGATTTTATT 120
Db 589 AAGCTTATCTGGTATTTAACTTTTCTCTGCTGTGCAAAATGAGAGTTAGATTTTATT 530
Qy 121 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGG 180
Db 529 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGG 470
Qy 181 GCAGATTCCTTAAAGGACCTTTGGGACAACTCTTATCAGGAGGAGGAACTGCTCAT 240
Db 469 GCAGATTCCTTAAAGGACCTTTT-GGACAACTCTTATCAGGAGGAGGAACTGCTCAT 411
Qy 241 TCTGCTACTTCTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATGCAATGCAATG 300
Db 410 TCTGCTACTTCTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATGCAATGCAATG 351
Qy 301 GTGAGGCGCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db 290 TCCAGGTCCTTCATATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCA 231
Qy 421 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTGATTTTCCAAAAATCCA 480

Db 230 GGGAACTCTTTTCCATGAGTACTCTCAGGTCCTCTTGTAAAGTACGCTTTATCCCA 171
Qy 481 GCGAATTTGTAATGTAACATCATGTTTCCATGCGGTGTCATTTGAGATGGCAAT 540
Db 170 GCGAATTTGTAATGTAACATCATGTTTCCATGCGGTGTCATTTGAGATGGCAAT 111
Qy 541 TTGCTGTGGTCCGTTGAAGCCTTGGCCGAGCGCGCGGACGCTGGCGGAGCTGGGCGAG 600
Db 110 TTGCTGTGGTCCGTTGAAGCCTTGG- CGAGCGCGGCGGACGCTGGCGGAGCTGGGCGAG 52
Qy 601 CTGACCGCGGCGGAGAGCGGAGC 625
Db 51 CTGACCGCGGCGGAGAGCGGAGC 27

RESULT 12

US-10-264-049-1114/c
; Sequence 1114, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133PI
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1114
; LENGTH: 663
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (553)..(553)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (602)..(602)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (623)..(623)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (656)..(657)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (661)..(661)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-264-049-1114

Query Match 49.7%; Score 595.8; DB 17; Length 663;
Best Local Similarity 99.5%; Pred. No. 1.3e-165;
Matches 597; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 2 GAACATAAAAGAACTTTATTATTGAGGCAAGGGGATGCAACAATACAAAATCAAA 61
Db 601 GAACATAAAAGAACTTTATTATTGAGGCAAGGGGATGCAACAATACAAAATCAAA 542
Qy 62 AGCTTATCTGGTAACTTTCTTCTCTGCTTGTCAAATGAGAGTTAGATTTATTT 121
Db 541 AGCTTATCTGTAATTTAACTTTTCTTCTCTGCTTGTCAAATGAGAGTTAGATTTATTT 482
Qy 122 TTACATTTGCTAAGTGTCTGATCTGCTCATGAATCTTCTATGGGGAAGCTGTGGG 181
Db 481 TTACATTTGCTAAGTGTCTGATCTGCTCATGAATCTTCTATGGGGAAGCTGTGGG 422

Qy 182 CAGATTCCTTAAGCAGCCCTTTGGGACAACTCTTATCAGGAGGAGGAACTGCTCATTT 241
Db 421 CAGATTCCTTAAGCAGCCCTTTGGGACAACTCTTATCAGGAGGAGGAACTGCTCATTT 362
Qy 242 CTGCTACTTCTTTCCCTTCTGCTTCATGFTACTACAAATAGTCAATTCGATGCAATGG 301
Db 361 CTGCTACTTCTTTCCCTTCTGCTTCATGFTACTACAAATAGTCAATTCGATGCAATGG 302
Qy 302 TGAGSCCCGCAATAGGGAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGT 361
Db 301 TGAGSCCCGCAATAGGGAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGT 242
Qy 362 CAGGTCCTTTCATTTATTTGTCACAGCCAGAGGGTCTTTTGGATTTTCCAAAATCCAG 421
Db 241 CCAGGTCCTTTCATTTATTTGTCACAGCCAGAGGGTCTTTTGGATTTTCCAAAATCCAG 182
Qy 422 GGAATCTCTTTTCCATGAGTACTCTCAGGTCCTCTTTGTTAAGTAGGCTTTATCCCCAG 481
Db 181 GGAATCTCTTTTCCATGAGTACTCTCAGGTCCTCTTTGTTAAGTAGGCTTTATCCCCAG 122
Qy 482 CGAATTTGTGAATGTAACATCATGTTTCCATGCGGTCTTCCATTTGAGATGGCAATTT 541
Db 121 CGAATTTGTGAATGTAACATCATGTTTCCATGCGGTCTTCCATTTGAGATGGCAATTT 62
Qy 542 TGCTGTGGTCCGTTGAAGCCTTGGCCGAGCGCGGCGAGCGCTGGGCGAGCTGGGCGAGC 601
Db 61 TGCTGTGGTCCGTTGAAGCCTTGGCCGAGCGCGGCGAGCGCTGGGCGAGCTGGGCGAGC 2

RESULT 13

US-10-027-632-261591/c
; Sequence 261591, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 261591
; LENGTH: 608
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-261591

Query Match 48.2%; Score 577.4; DB 13; Length 608;
Best Local Similarity 97.0%; Pred. No. 3.6e-160;
Matches 587; Conservative 1; Mismatches 17; Indels 0; Gaps 0;
Qy 532 GATGGCATTTTGTGTGTCGTTGAAGCCCTTGGCCGAGCGCGGCGAGCGCTGGGCGAG 591
Db 605 GAGGGGCGGTGGCCCGGCGGAGCTCACCTTGGCCGAGCGCGGCGAGCGCTGGGCGAG 546
Qy 592 CTGGGCGAGCTGAGCGCGGCGGAGGCGGAGCGGCGGCGGCTGTGGCGCTTCTTAGT 651
Db 545 CTGGGCGAGCTGAGCGCGGCGGAGGCGGAGCGGCGGCGGCTGTGGCGCTTCTTAGT 486

Qy	652	ACGTGCGGCGGGTGGGTAGAGGAGGCGGCGCGGAGCGGAGAGGAGCTTGGCGGGCGCTC	711
Db	485	ACGTGCGGCGGGTGGGTAGAGGAGGCGGCGCGGAGCGGAGGAGCTTGGCGGGCGCTC	426
Qy	712	GGCAGGGCGCTCCCCCAGACCTGTCTCTCCCCCTCTTCTGCCCCCGACTCCCCCGACC	771
Db	425	GGCAGGGCGCTCCCCCAGACCTGTCTCTCCCCCTCTTCTGCCCCCGACTCCCCCGACC	366
Qy	772	CCGGGCGCGGGGCCACCGCCCTGCTCGCTCCGGACCCGCTTCGAGAGGCTTCGCC	831
Db	365	CCGGGCGCGGGGCCACCGCCCTGCTCGCTCCGGACCCGCTTCGAGAGGCTTCGCC	306
Qy	832	GCCCCACACAGAGGTTCTTTGTAACCTCTCTTCAGTAGAACCCTCCTCTCGAATA	891
Db	305	GCCCCACACAGAGGTTCTTTGTAACCTCTCTTCAGTAGAACCCTCCTCTCGAATA	246
Qy	892	TTTCAGGGCATCCCCACCCCTGAGCCTGCCCTTCTCTCGGTTTGGTTTTAGAAAGTGTA	951
Db	245	TTTCAGGGCATCCCCACCCCTGAGCCTGCCCTTCTCTCGGTTTGGTTTTAGAAAGTGTA	186
Qy	952	CAAAATCAAGAAACCCGCGCTCTCGGGTGGGGCACGCTGGCGCAGAACACAGAGTAAAC	1011
Db	185	CAAAATCAAGAAACCCGCGCTCTCGGGTGGGGCACGCTGGCGCAGAACACAGAGTAAAC	126
Qy	1012	CGGCTCTGCGGCCACCTACGGGCTCAGGAATTAATCTCTGGATGACCCCTCCAGGGAGTGG	1071
Db	125	CGGCTCTGCGGCCACCTACGGGCTCAGGAATTAATCTCTGGATGACCCCTCCAGGGAGTGG	66
Qy	1072	CACGTGAGTCTTATCGACCTCAGAGGCATATCAGATTAGCCCTAGGAGGTCGCTCGG	1131
Db	65	CACGTGAGTCTTATCGACCTCAGAGGCATATCAGATTAGCCCTAGGAGGTCGCTCGG	6
Qy	1132	GGGTC 1136	
Db	5	GGGTC 1	

	Matches	587; Conservative	1; Mismatches	17; Indels	0; Gaps	0;
Qy	532	GATGGCATTTTGTGTCCTTGAAGCCTTGCCGAGCGCGGCAGACGCTGGCGAG	591			
Db	605	GAGGGCGCTGTCGCCGCGGCGAGCTCACCTTGGCGAGGCGCGCGGACGCTGGCGCGAG	546			
Qy	592	CTGGGCGAGCTGACACCGGGGCGGAGCGAGCGAGCGGGCGGGCTGTGGGCTTCCTTAGT	651			
Db	545	CTGGGCGAGCTGACACCGGGGCGGAGCGAGCGGGCGGGCTGTGGGCTTCCTTAGT	486			
Qy	652	ACGTGCGGCGGGTGGGTAGAGGGAGGCGGCGCGGGAGCGGAGCGCTTGGCGGGCGCTC	711			
Db	485	ACGTGCGGCGGGTGGGTAGAGGGAGGCGGCGCGGGAGCGGAGGAGCTTGGCGGGCGCTC	426			
Qy	712	GGAGGGCGCTCCCCAGACCCTGTCTCTCCCCCTCTTCTTCTGCCCCCGACTCCCCCGACC	771			
Db	425	GGCAGGGCGCTCCCCAGACCCTGTCTCTCCCCCTCTTCTTCTGCCCCCGACTCCCCCGACC	366			
Qy	772	CCGGGCGCGGGCCCAAGCCCCTCGCTCCGGGACCGCTCGCAGAGGCTCGGCC	831			
Db	365	CCGGGCGCGGGCCCAAGCCCCTCGCTCCGGGACCGCTCGCAGAGGCTCGGCC	306			
Qy	832	GCSCCAGACAGAGCGTTCTTGTAACTTCTTTCAGTAGAACAAGTCTCTCTCGAATA	891			
Db	305	GCSCCAGACAGAGCGTTCTTGTAACTTCTTTCAGTAGAACAAGTCTCTCTCGAATA	246			
Qy	892	TTTCAGGGCATCCCACTGAGCGCTGCCCTCTCTCGGGTTTGGTTAGAAAAGTGTA	951			
Db	245	TTTCAGGGCATCCCACTGAGCGCTGCCCTCTCTCGGGTTTGGTTAGAAAAGTGTA	186			
Qy	952	CAAATCAAGAACC CGGCGCTCTCGGGTGGGCGACGCTGGCGCAGAAC CAGAGGTAAC	1011			
Db	185	CAAATCAAGAACC CGGCGCTCTCGGGTGGGCGACGCTGGCGCAGAAC CAGAGGTAAC	126			
Qy	1012	CGGCTCTCGCGGCCACCTACGGGCTAGGAATTAATTGCTGGATGACCCCTGCAGGGAGTGG	1071			
Db	125	CGGCTCTCGCGGCCACCTACGGGCTAGGAATTAATTGCTGGATGACCCCTGCAGGGAGTGG	66			
Qy	1072	CAGTGGAGTCCTATCGACCTCAGAGGCACATCAGATTAGCCCTAGGAGGTCCGCTCGG	1131			
Db	65	CAGTGGAGTCCTATCGACCTCAGAGGCACATCAGATTAGCCCTAGGAGGTCCGCTCGG	6			
Qy	1132	GGGTC 1136				
Db	5	GGGTC 1				
 RESULT 15 US-09-920-300A-890 ; Sequence 890, Application US/09920300A ; Patent No. US20020136728A1 ; GENERAL INFORMATION: ; APPLICANT: King, Gordon E. ; APPLICANT: Meagher, Madeleine Joy ; APPLICANT: Xu, Jiangchun ; APPLICANT: Secrist, Heather ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY ; FILE REFERENCE: 210121.547 ; CURRENT APPLICATION NUMBER: US/09/920,300A ; CURRENT FILING DATE: 2001-07-31 ; NUMBER OF SEQ ID NOS: 1789 ; SOFTWARE: FastSeq for Windows Version 4.0 ; SEQ ID NO 890 ; LENGTH: 571 ; TYPE: DNA ; ORGANISM: Homo sapiens ; FEATURE: ; NAME/KEY: misc feature ; LOCATION: 29, 40, 139, 211, 351, 379, 559 ; OTHER INFORMATION: n = A,T,C or G US-09-920-300A-890						


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Qy 1 GGAACATAAAAGAACTTTATTATTGAGGCAAGGGGATGCAAAACAATACAAAAATCAA 60
Db |||
Qy 28 GNAACATAAAANAACCTTTATTATTGAGGCAAGGGGATGCAAAACAATACAAAAATCAA 87
Db |||
Qy 61 AAGCTTATCTGGTATTAACTTTTCTTCTGCTTGTCAAAATGAGAGTTAGATTTTATT 120
Db |||
Qy 88 AAGCTTATCTGGTATTAACTTTTCTTCTGCTTGTCAAAATGAGAGTTANATTTTATT 147
Db |||
Qy 121 TTATCATTTGCTAAGTGTCTGATCTGCTCATGAAATCCCTTCTATGGGGAAGCTGTGGG 180
Db |||
Qy 148 TTATCATTTGCTAAGTGTCTGATCTGCTCATGAAATCCCTTCTATGGGGAAGCTGTGGG 207
Db |||
Qy 181 GCAGATTCCTTAAAGCAACCTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 240
Db |||
Qy 208 GCANATTCCTTAAAGCAACCTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 267
Db |||
Qy 241 TCTGCCTACTTCTTCCCTTCTGCTTCTGCTCATGAAATCCCTTCTATGGGGAAGCTGTGGG 300
Db |||
Qy 268 TCTGCCTACTTCTTCCCTTCTGCTTCTGCTCATGAAATCCCTTCTATGGGGAAGCTGTGGG 327
Db |||
Qy 301 GTGAGGCGCCGCAATAGGGAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db |||
Qy 328 GTGAGGCGCCGCAATAGGGAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 387
Db |||
Qy 361 TCCAGGTCCTTCAATATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTCCAAAAATCCA 420
Db |||
Qy 388 TCCAGGTCCTTCAATATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTCCAAAAATCCA 447
Db |||
Qy 421 GGGAACTCCCTTTTCCATGAGTACTCTCAGGTCCTCTTGTAAAGTACCTTTATCCCA 480
Db |||
Qy 448 GGGAACTCCCTTTTCCATGAGTACTCTCAGGTCCTCTTGTAAAGTACCTTTATCCCA 507
Db |||
Qy 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTGTCCATTTGAGATGGCAAT 540
Db |||
Qy 541 TTGG 544
Db |||
Qy 568 TTGG 571
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RESULT 18

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US-10-961-527-890
; Sequence 890, Application US/10961527
; Publication No. US20050147615A1
; GENERAL INFORMATION:
; APPLICANT: King, Gordon E.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Xu, Jiangchun
; APPLICANT: Secrist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.547C4
; CURRENT APPLICATION NUMBER: US/10/961,527
; CURRENT FILING DATE: 2004-10-07
; PRIOR FILING DATE: US 09/920,300
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/302,051
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/279,763
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/223,283
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 1789
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 890
; LENGTH: 571
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 29, 40, 139, 211, 351, 379, 559
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; OTHER INFORMATION: n = A,T,C or G
US-10-961-527-890
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Query Match 44.8%; Score 537; DB 22; Length 571;
Best Local Similarity 98.7%; Pred. No. 3.3e-148;
Matches 537; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 GGAACATAAAAGAACTTTATTATTGAGGCAAGGGGATGCAAAACAATACAAAAATCAA 60
Db |||
Qy 28 GNAACATAAAANAACCTTTATTATTGAGGCAAGGGGATGCAAAACAATACAAAAATCAA 87
Db |||
Qy 61 AAGCTTATCTGGTATTAACTTTTCTTCTGCTTGTCAAAATGAGAGTTAGATTTTATT 120
Db |||
Qy 88 AAGCTTATCTGGTATTAACTTTTCTTCTGCTTGTCAAAATGAGAGTTANATTTTATT 147
Db |||
Qy 121 TTATCATTTGCTAAGTGTCTGATCTGCTCATGAAATCCCTTCTATGGGGAAGCTGTGGG 180
Db |||
Qy 148 TTATCATTTGCTAAGTGTCTGATCTGCTCATGAAATCCCTTCTATGGGGAAGCTGTGGG 207
Db |||
Qy 181 GCAGATTCCTTAAAGCAACCTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 240
Db |||
Qy 208 GCANATTCCTTAAAGCAACCTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 267
Db |||
Qy 241 TCTGCCTACTTCTTCCCTTCTGCTTCTGCTCATGAAATCCCTTCTATGGGGAAGCTGTGGG 300
Db |||
Qy 268 TCTGCCTACTTCTTCCCTTCTGCTTCTGCTCATGAAATCCCTTCTATGGGGAAGCTGTGGG 327
Db |||
Qy 301 GTGAGGCGCCGCAATAGGGAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db |||
Qy 328 GTGAGGCGCCGCAATAGGGAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 387
Db |||
Qy 361 TCCAGGTCCTTCAATATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTCCAAAAATCCA 420
Db |||
Qy 388 TCCAGGTCCTTCAATATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTCCAAAAATCCA 447
Db |||
Qy 421 GGGAACTCCCTTTTCCATGAGTACTCTCAGGTCCTCTTGTAAAGTACCTTTATCCCA 480
Db |||
Qy 448 GGGAACTCCCTTTTCCATGAGTACTCTCAGGTCCTCTTGTAAAGTACCTTTATCCCA 507
Db |||
Qy 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTGTCCATTTGAGATGGCAAT 540
Db |||
Qy 541 TTGG 544
Db |||
Qy 568 TTGG 571
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RESULT 19

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US-10-242-535A-47618/c
; Sequence 47618, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; OF INVENTION:
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A
; CURRENT FILING DATE: 2002-09-12
; PRIOR FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 47618
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Human
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; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 1
; LENGTH: 2016
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..1434
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1435..1836
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: 1837..2016
; FEATURE:
; NAME/KEY: polyA_signal
; LOCATION: 1965..1970
; FEATURE:
; NAME/KEY: polyA_site
; LOCATION: 2001..2016
; US-09-992-095B-1

Query Match 40.5%; Score 485.2; DB 10; Length 2016;
Best Local Similarity 94.7%; Pred. No. 1.4e-132;
Matches 502; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

Qy	73	TATTTAACTTTCTCTCTGCTTGTCAAATGAGAGTTAGATTTATTTTACATTGCT	132
Db	2012	TTTTTTTTTTCTCTCTCTGCTTGTCAAATGAGAGTTAGATTTATTTTACATTGCT	1953
Qy	133	AAGTGCTCGATCTGCTCATGAATCCTTCTATGGGGAGAGCTGTGGGCGAGATTCCTTA	192
Db	1952	AAGTGCTCGATCTGCTCATGAATCCTTCTATGGGGAGAGCTGTGGGCGAGATTCCTTA	1893
Qy	193	AGCGACCTTTGGGACAACTTTATCAGGGAGAGCGAACTGCTCAATTCCTGCTACTTC	252
Db	1892	AGCGACCTTTGGGACAACTTTATCAGGGAGAGCGAACTGCTCAATTCCTGCTACTTC	1833
Qy	253	TTTCCCTTCTGCTTCAATGAGAGTTAGATTTATTTTACATTGCT	132
Db	1832	TTTTTTTTTTCTCTCTCTGCTTGTCAAATGAGAGTTAGATTTATTTTACATTGCT	1953
Qy	313	ATTAGGAAAAGAGCTCTGGAAGCCCACTTTCGCCATCTCTACCTGGTCCAGGTCCTTC	372
Db	1772	ATTAGGAAAAGAGCTCTGGAAGCCCACTTTCGCCATCTCTACCTGGTCCAGGTCCTTC	1713
Qy	373	ATTATTTTGTCCACAGCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGGGAATCCTTT	432
Db	1712	ATTATTTTGTCCACAGCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGGGAATCCTTT	1653
Qy	433	TCCATGAGTACTCTCAGGTCCTCTTTGTTAAAGTAGCCTTTATCCCCAGGCAATTTGTGA	1593
Db	1652	TCCATGAGTACTCTCAGGTCCTCTTTGTTAAAGTAGCCTTTATCCCCAGGCAATTTGTGA	1593
Qy	493	AATGTAAACATCATGGTTCCATGGCGTGTTCATTTTGGATGTCATTTTGGTGTGTC	552
Db	1592	AATGTAAACATCATGGTTCCATGGCGTGTTCATTTTGGATGTCATTTTGGTGTGTC	1533
Qy	553	GTTGAAGCCTTTGGCGAGGCGCGGAGCGCTGGGCGAGCTGGGCGAGCT 602	
Db	1532	GTTGAAGCCTTTGGCGAGGCTCAGTGCAGGCTGTGGGCGAGGCAAGAAAGGT 1483	

RESULT 24

US-09-999-570-1/c

; Sequence 1, Application US/09999570

; Publication No. US20030170628A1
; GENERAL INFORMATION:
; APPLICANT: Benjanin, Stephane
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: G-091US08DIV
; CURRENT APPLICATION NUMBER: US/09/999,570
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 1
; LENGTH: 2016
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..1434
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1435..1836
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: 1837..2016
; FEATURE:
; NAME/KEY: polyA_signal
; LOCATION: 1965..1970
; FEATURE:
; NAME/KEY: polyA_site
; LOCATION: 2001..2016
; US-09-999-570-1

Query Match 40.5%; Score 485.2; DB 10; Length 2016;
Best Local Similarity 94.7%; Pred. No. 1.4e-132;
Matches 502; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

Qy	73	TATTTAACTTTCTCTCTGCTTGTCAAATGAGAGTTAGATTTATTTTACATTGCT	132
Db	2012	TTTTTTTTTTCTCTCTCTGCTTGTCAAATGAGAGTTAGATTTATTTTACATTGCT	1953
Qy	133	AAGTGCTCGATCTGCTCATGAATCCTTCTATGGGGAGAGCTGTGGGCGAGATTCCTTA	192
Db	1952	AAGTGCTCGATCTGCTCATGAATCCTTCTATGGGGAGAGCTGTGGGCGAGATTCCTTA	1893
Qy	193	AGCGACCTTTGGGACAACTTTATCAGGGAGAGCGAACTGCTCAATTCCTGCTACTTC	252
Db	1892	AGCGACCTTTGGGACAACTTTATCAGGGAGAGCGAACTGCTCAATTCCTGCTACTTC	1833
Qy	253	TTTCCCTTCTGCTTCAATGAGAGTTAGATTTATTTTACATTGCT	312
Db	1832	TTTTTTTTTTCTCTCTCTGCTTGTCAAATGAGAGTTAGATTTATTTTACATTGCT	1773
Qy	313	ATTAGGAAAAGAGCTCTGGAAGCCCACTTTCGCCATCTCTACCTGGTCCAGGTCCTTC	372
Db	1772	ATTAGGAAAAGAGCTCTGGAAGCCCACTTTCGCCATCTCTACCTGGTCCAGGTCCTTC	1713
Qy	373	ATTATTTTGTCCACAGCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGGGAATCCTTT	432
Db	1712	ATTATTTTGTCCACAGCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGGGAATCCTTT	1653
Qy	433	TCCATGAGTACTCTCAGGTCCTCTTTGTTAAAGTAGCCTTTATCCCCAGGCAATTTGTGA	492

Db 1652 TCCATGAGTACTCTCAGTCTCCTCTTTGTTAAGTAGCCTTTATCCCGAGCAATTTGTGA 1593
Qy 493 AATGTAACATCATGTTTCCATGCGCGTGTCCATTTGAGATGGCAATTTTGGTGTGTC 552
Db 1592 AATGTAACATCATGTTTCCATGCGCGTGTCCATTTGAGATGGCAATTTTGGTGTGTC 1533
Qy 553 GTTGAAGCCTTGGCGAGCGCGGAGCGGTGGCGAGCTGGCGAGCT 602
Db 1532 GTTGAAGCCACCAGAGGCTCAGTGCAGGCTGTGGCGAGCAAGAAAAGGT 1483

RESULT 25

US-10-000-489-1/c
; Sequence 1, Application US/10000489
; Publication No. US20030092011A1
; GENERAL INFORMATION:
; APPLICANT: Benjanin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US6.DIV
; CURRENT APPLICATION NUMBER: US/10/000,489
; CURRENT FILING DATE: 2001-11-14
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent

SEQ ID NO 1

LENGTH: 2016

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: 5'UTR

LOCATION: 1..1434

NAME/KEY: CDS

LOCATION: 1435..1836

NAME/KEY: 3'UTR

LOCATION: 1837..2016

NAME/KEY: polyA_signal

LOCATION: 1965..1970

NAME/KEY: polyA_site

LOCATION: 2001..2016

US-10-000-489-1

Query Match 40.5%; Score 485.2; DB 14; Length 2016;

Best Local Similarity 94.7%; Pred. No. 1.4e-132;

Matches 502; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

Qy 73 TATTAACTTTCTTCTCTGCTGTGCAAAATGAGATTAGATTTTATTTTACATTTGCT 132
Db 2012 TTTTCTTTCTTCTCTGCTGTGCAAAATGAGATTAGATTTTATTTTACATTTGCT 1953
Qy 133 AAGTGTCTGATCTGCTCATGAAATCCTTTATGGGGGAAGCTGTGGGCGAGATTCCTTA 192
Db 1952 AAGTGTCTGATCTGCTCATGAAATCCTTTATGGGGGAAGCTGTGGGCGAGATTCCTTA 1893
Qy 193 AGCGACCTTTGGGACAACTTTATCAGGAGGAGCGAATGCTCATTTCTGCTACTTTC 252
Db 1892 AGCGACCTTTGGGACAACTTTATCAGGAGGAGCGAATGCTCATTTCTGCTACTTTC 1833
Qy 253 TTTCCCTTCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 312
Db 1832 TTTCCCTTCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1773

Qy 313 ATTAGGAAAGAGCTCTGGAAGCCACCTTTGCCATCTCTACACTGGTCAGGTCCTTC 372
Db 1772 ATTAGGAAAGAGCTCTGGAAGCCACCTTTGCCATCTCTACACTGGTCAGGTCCTTC 1713
Qy 373 ATTATTTTGTCCACAGCCAGAGGCTCTTTTGTGATTTTCCAAAATCCAGGAACTCCCTTT 432
Db 1712 ATTATTTTGTCCACAGCCAGAGGCTCTTTTGTGATTTTCCAAAATCCAGGAACTCCCTTT 1653
Qy 433 TCCATGAGTACTCTCAGGTCCTCTCTTTGTTAAGTAGCCTTTATCCCGAGCAATTTGTGA 492
Db 1652 TCCATGAGTACTCTCAGGTCCTCTCTTTGTTAAGTAGCCTTTATCCCGAGCAATTTGTGA 1593
Qy 493 AATGTAACATCATGTTTCCATGCGCGTGTCCATTTGAGATGGCAATTTTGGTGTGTC 552
Db 1592 AATGTAACATCATGTTTCCATGCGCGTGTCCATTTGAGATGGCAATTTTGGTGTGTC 1533
Qy 553 GTTGAAGCCTTGGCGAGCGCGGAGCGCTGGGCGAGCTGGGCGAGCT 602
Db 1532 GTTGAAGCCACCAGAGGCTCAGTGCAGGCTGTGGGCGAGCAAGAAAAGGT 1483

RESULT 26

US-10-000-986-1/c

; Sequence 1, Application US/10000986

; Publication No. US20030096247A1

; GENERAL INFORMATION:

; APPLICANT: Benjanin, Stephane

; APPLICANT: Tanaka, Hiroaki

; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF

; FILE REFERENCE: 91.US9.DIV

; CURRENT APPLICATION NUMBER: US/10/000,986

; CURRENT FILING DATE: 2001-11-14

; PRIOR APPLICATION NUMBER: US 09/924,340

; PRIOR FILING DATE: 2001-08-06

; PRIOR APPLICATION NUMBER: PCT/IB01/01715

; PRIOR FILING DATE: 2001-08-06

; PRIOR APPLICATION NUMBER: US 60/305,456

; PRIOR FILING DATE: 2001-07-13

; PRIOR APPLICATION NUMBER: US 60/302,277

; PRIOR FILING DATE: 2001-06-29

; PRIOR APPLICATION NUMBER: US 60/298,698

; PRIOR FILING DATE: 2001-06-15

; PRIOR APPLICATION NUMBER: US 60/293,574

; PRIOR FILING DATE: 2001-05-25

; NUMBER OF SEQ ID NOS: 112

; SOFTWARE: JPatent

SEQ ID NO 1

LENGTH: 2016

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: 5'UTR

LOCATION: 1..1434

NAME/KEY: CDS

LOCATION: 1435..1836

NAME/KEY: 3'UTR

LOCATION: 1837..2016

NAME/KEY: polyA_signal

LOCATION: 1965..1970

NAME/KEY: polyA_site

LOCATION: 2001..2016

US-10-000-986-1

Query Match

40.5%; Score 485.2; DB 14; Length 2016;

Best Local Similarity 94.7%; Pred. No. 1.4e-132;

Matches 502; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

Qy 73 TATTAACTTTCTTCTCTGCTGTGCAAAATGAGATTAGATTTTATTTTACATTTGCT 132
Db 2012 TTTTCTTTCTTCTCTGCTGTGCAAAATGAGATTAGATTTTATTTTACATTTGCT 1953
Qy 133 AAGTGTCTGATCTGCTCATGAAATCCTTTATGGGGGAAGCTGTGGGCGAGATTCCTTA 192

Db 1952 AAGTGTCTCTGATCTCATGAATCTTCTATGGGGAAAGTGTGGGGCAGATTCCCTTA 1893
Qy 193 AGGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCAACTGCTCATTTCTGGCTACTTC 252
Db 1892 AGGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCAACTGCTCATTTCTGGCTACTTC 1833
Qy 253 TTTCCCTTCTGCTTCATGTGTAATACAAATAGTCAATTCATGCAATGGTGAGGCCCGCA 312
Db 1832 TTTCCCTTCTGCTTCATGTGTAATACAAATAGTCAATTCATGCAATGGTGAGGCCCGCA 1773
Qy 313 ATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGTCAGGTCCTTC 372
Db 1772 ATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGTCAGGTCCTTC 1713
Qy 373 ATTATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTTCCAAAATCCAGGAACTCCTTT 432
Db 1712 ATTATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTTCCAAAATCCAGGAACTCCTTT 1653
Qy 433 TCCATGAGTACTCTCAGGTCCTCTTTTGAAGTAGCCTTTATCCCGAGCGAATTTGTGA 492
Db 1652 TCCATGAGTACTCTCAGGTCCTCTTTTGAAGTAGCCTTTATCCCGAGCGAATTTGTGA 1593
Qy 493 AATGTAACATCATGTGTTTCATGGCGTGTTCATTTGAGATGGCAATTTGGTGGTCC 552
Db 1592 AATGTAACATCATGTGTTTCATGGCGTGTTCATTTGAGATGGCAATTTGGTGGTCC 1533
Qy 553 GTTGAAGCCCTTGGCGAGGCGCGGACGCTGGCGAGCTGGCGAGCT 602
Db 1532 GTTGAAGCCACCAGAGGCTCAGTCCGAGGCTCTGGGCGGCAAGAAAGGT 1483

RESULT 27

US-10-154-678-1/c
; Sequence 1, Application US/10154678
; Publication No. US20030162186A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 182.US1.REG
; CURRENT APPLICATION NUMBER: US/10/154,678
; PRIOR FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 1
; LENGTH: 2016
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..1434
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1435..1836
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: 1837..2016
; FEATURE:
; NAME/KEY: polyA_signal
; LOCATION: 1965..1970
; FEATURE:
; NAME/KEY: polyA_site
; LOCATION: 2001..2016

US-10-154-678-1
Query Match 40.5%; Score 485.2; DB 16; Length 2016;
Best Local Similarity 94.7%; Pred. No. 1.4e-132;
Matches 502; Conservative 0; Mismatches 28; Indels 0; Gaps 0;
Qy 73 TATTTAACTTTTCTCTGCTTGTCAAAATGAGAGTATAGATTTTATTTTACATTTGCT 132
Db 2012 TTTTCTTTTCTCTCTGCTTGTCAAAATGAGAGTATAGATTTTATTTTACATTTGCT 1953
Qy 133 AAGTGCTCTGATCTGCTCATGAAATCCTTCTATGGGGAAAGCTGTGGGGCAGATTCCCTTA 192
Db 1952 AAGTGCTCTGATCTGCTCATGAAATCCTTCTATGGGGAAAGCTGTGGGGCAGATTCCCTTA 1893
Qy 193 AGCGACCCCTTGGGACAACTCTTATCAGGGAGGAGCAACTGCTCATTTCTGCTACTTC 252
Db 1892 AGCGACCCCTTGGGACAACTCTTATCAGGGAGGAGCAACTGCTCATTTCTGCTACTTC 1833
Qy 253 TTTCCCTTCTGCTTCTATGTGTACTACAAAATAGTCAATTCATGCAATGGTGAGGCCCGCA 312
Db 1832 TTTCCCTTCTGCTTCTATGTGTACTACAAAATAGTCAATTCATGCAATGGTGAGGCCCGCA 1773
Qy 313 ATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGTCCAGGTCCTTC 372
Db 1772 ATTAGGAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGTCCAGGTCCTTC 1713
Qy 373 ATTATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTTCCAAAATCCAGGAACTCCTTT 432
Db 1712 ATTATTTTGTCCACAGCCAGAGGGTCTTTTGAATTTTCCAAAATCCAGGAACTCCTTT 1653
Qy 433 TCCATGAGTACTCTCAGGTCCTCTTTTGAAGTAGCCTTTATCCCGAGCGAATTTGTGA 492
Db 1652 TCCATGAGTACTCTCAGGTCCTCTTTTGAAGTAGCCTTTATCCCGAGCGAATTTGTGA 1593
Qy 493 AATGTAACATCATGTGTTTCATGGCGTGTTCATTTGAGATGGCAATTTGGTGGTCC 552
Db 1592 AATGTAACATCATGTGTTTCATGGCGTGTTCATTTGAGATGGCAATTTGGTGGTCC 1533
Qy 553 GTTGAAGCCCTTGGCGAGGCGCGGACGCTGGCGAGCTGGCGAGCT 602
Db 1532 GTTGAAGCCACCAGAGGCTCAGTCCGAGGCTCTGGGCGGCAAGAAAGGT 1483

RESULT 28

US-10-001-142-1/c
; Sequence 1, Application US/10001142
; Publication No. US20030198954A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US7.DIV
; CURRENT APPLICATION NUMBER: US/10/001,142
; PRIOR FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 1
; LENGTH: 2016
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: 1..1434
; NAME/KEY: CDS
; LOCATION: 1435..1836
; NAME/KEY: 3'UTR
; LOCATION: 1837..2016

QY 303 GAGCCCGCAATTAGGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGTC 362
Db 180 GAGCCCGCAATTAGGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGTC 121
QY 363 CAGTCTCTTCATTATTTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGG 422
Db 120 CAGTCTCTTCATTATTTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGG 61
QY 423 GAATCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTAAAGTAGCTTTATCCCCCAGC 482
Db 60 GAATCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTAAAGTAGCTTTATCCCCCAGC 1

RESULT 35
US-10-085-783A-49122/c
; Sequence 49122, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 49122
; LENGTH: 480
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-49122

Query Match 37.4%; Score 448; DB 18; Length 480;
Best Local Similarity 95.8%; Pred. No. 7.2e-122;
Matches 460; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 3 AACTTAAAGAAAGACTTTATTTATTTAGGCGAAGGGATGCAAAACAATACAAAAATCAAAA 62
Db 480 AACTTAAAGAAAGACTTTATTTATTTAGGCGAAGGGATGCAAAACAATACAAAAATCAAAA 421
QY 63 GCTTATCTGGTATTTAACTTTTCTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATTTT 122
Db 420 GCTTATCTGGTATTTAACTTTTCTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATTTT 361
QY 123 TACATTTGCTAAGTCTCTGATCTGCTCATGAATCTCTTATGCGGGGAAAGCTGTGGGC 182
Db 360 TACATTTGCTAAGTCTCTGATCTGCTCATGAATCTCTTATGCGGGGAAAGCTGTGGGC 301
QY 183 AGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGCAACTGCTCATTTT 242
Db 300 AGATTCCTTAAGCGACCCCTTTGGGCAACTCTTATCAGGAGGAGCGCAACTGCTCATTTT 241
QY 243 TGCCTACTCTCTTCCCTTCTGCTTCTGCTCATGCTACAAAAATAGTCATTGTCATGCAATGGT 302
Db 240 TGCCTACTCTCTTCCCTTCTGCTTCTGCTCATGCTACAAAAATAGTCATTGTCATGCAATGGT 181
QY 303 GAGCCCGCAATTAGGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGTC 362
Db 180 GAGCCCGCAATTAGGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGTC 121
QY 363 CAGTCTCTTCATTATTTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGG 422
Db 120 CAGTCTCTTCATTATTTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGG 61
QY 423 GAATCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTAAAGTAGCTTTATCCCCCAGC 482
Db 60 GAATCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTAAAGTAGCTTTATCCCCCAGC 1

Db 60 GAACTCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTAAAGTAGCTTTATCCCCCAGC 1

RESULT 36

US-10-242-535A-56036/c
; Sequence 56036, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56036
; LENGTH: 474
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (432)..(432)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (436)..(436)
; OTHER INFORMATION: n is a, c, g, or t
US-10-242-535A-56036

Query Match 37.2%; Score 446.4; DB 17; Length 474;

Best Local Similarity 98.9%; Pred. No. 2.1e-121;
Matches 469; Conservative 0; Mismatches 3; Indels 2; Gaps 2;

QY 9 AAAAGAACTTTATTTATTTAGGCGAAGGGATGCAAAACAAT-ACAAAAATCAAAAGCTTA 67
Db 474 AAAAGAACTTTATTTATTTAGGCGAAGGGATGCAAAACAATCAAAAGCTTA 415
QY 68 TCTGGTATTTAACTTTTCTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATTTTACAT 127
Db 414 TCTGGTATTTAACTTTTCTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATTTTACAT 355
QY 128 TTGCTAAGTCTCTGATCTGCTCATGAAATCTCTTCTATGGGGAAGCTGTGGGCGAGATT 187
Db 354 TTGCTAAGTCTCTGATCTGCTCATGAAATCTCTTCTATGGGGAAGCTGTGGGCGAGATT 295
QY 188 CCTTAAGCGACCCCTTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCATTTTCTGCCT 247
Db 294 CCTTAAGCGACCCCTTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCATTTTCTGCCT 235
QY 248 ACTTCTTTCCCTTCTGCTTCTGCTTGTACTACAAAAATAGTCATTGTCATGCAATGGTGAGGC 307
Db 234 ACTTCTTTCCCTTCTGCTTCTGCTTGTACTACAAAAATAGTCATTGTCATGCAATGGTGAGGC 175
QY 308 CGCAATTAGGGAAGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGTCCAGGT 367
Db 174 CGCAATTAGGGAAGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGGTCCAGGT 115
QY 368 CTTTCAATTTTGTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGGAACT 427
Db 114 CTTTCAATTTTGTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGGAACT 55
QY 428 CTTTTCATAGTACTCTCAGGTCT-TCCTTTGTAAAGTAGCTTTATCCCCCA 480
Db 54 CTTTTCATAGTACTCTCAGGTCTCTCTTTTGTAAAGTAGCTTTATCCCCCA 1

RESULT 37

US-10-085-783A-56036/c
; Sequence 56036, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis

; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56036
; LENGTH: 474
; TYPE: DNA
; ORGANISM: Human

; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (432)..(436)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (436)..(436)
; OTHER INFORMATION: n is a, c, g, or t
US-10-085-783A-56036

Query Match 37.2%; Score 446.4; DB 18; Length 474;

Best Local Similarity 98.9%; Pred. No. 2.1e-121;
Matches 469; Conservative 0; Mismatches 3; Indels 2; Gaps 2;

Qy	9	AAAAAGACTTTATTATTAGGGCAAGGGGATGCAAAACAAT-ACAAAAATCAAAAGCTTA	67
Db	474	AAAAAGACTTTATTATTAGGGCAAGGGGATGCAAAACAAT-ACAAAAATCAAAAGCTTA	415
Qy	68	TCGTGATTTAACTTTCTTTCTCTGCTTGTCAAAATGAGAGTTAGATTTATTTTACAT	127
Db	414	TCGTGATTTAACTTTCTTTCTCTGCTTGTCAAAATGAGAGTTAGATTTATTTTACAT	355
Qy	128	TTGCTAAGTGTCTGATCTGCTCATGAAATCCCTTCTATGGGGAGGCTGTGGGCGAGTT	187
Db	354	TTGCTAAGTGTCTGATCTGCTCATGAAATCCCTTCTATGGGGAGGCTGTGGGCGAGTT	295
Qy	188	CCTTAAGCGCCCTTTGGGACACTCTTATCAGGGAGGAGGCACTGCTCATTTCTGCCT	247
Db	294	CCTTAAGCGCCCTTTGGGACACTCTTATCAGGGAGGAGGCACTGCTCATTTCTGCCT	235
Qy	248	ACTTCTTTTCCCTCTGCTTCATGTGTACTACAAATAGTCAATGCAATGGTGAGGC	307
Db	234	ACTTCTTTTCCCTCTGCTTCATGTGTACTACAAATAGTCAATGCAATGGTGAGGC	175
Qy	308	CCGCAATTTAGGAAAAGAGCTCTGGAGGCCACTTTGCCATCTCTACCTGTGCCAGGT	367
Db	174	CCGCAATTTAGGAAAAGAGCTCTGGAGGCCACTTTGCCATCTCTACCTGTGCCAGGT	115
Qy	368	CCTTCATTATTTCTGCACAGCAGAGGCTCTTTTTCATTTTCCAAAAATCCAGGGAAT	427
Db	114	CCTTCATTATTTCTGCACAGCAGAGGCTCTTTTTCATTTTCCAAAAATCCAGGGAAT	55
Qy	428	CCTTTTCCATGAGTACTCTCAGGTCC-TCCCTTTGTAAAGTAGCCTTTATCCCCA	480
Db	54	CCTTTTCCATGAGTACTCTCAGGTCCCTCTTTTGTAAAGTAGCCTTTATCCCCA	1

RESULT 38

US-10-242-535A-56504/c
; Sequence 56504, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:

; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56504
; LENGTH: 448
; TYPE: DNA
; ORGANISM: Human
US-10-242-535A-56504

Query Match 36.2%; Score 434.4; DB 17; Length 448;

Best Local Similarity 99.6%; Pred. No. 7.5e-118;

Matches 446; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy	1	GGAACTAAAGAACTTTATTATTGAGGGCAAGGGATGCAAAAC-AATACAAAAATCA	59
Db	448	GGAACTAAAGAACTTTATTATTGAGGGCAAGGGATGCAAAACAAATACAAAAATCA	389
Qy	60	AAAGCTTATCTGCTATTAACTTTCTTCTCTCTGCTGTCAAAATGAGAGTTAGATTTAT	119
Db	388	AAAGCTTATCTGCTATTAACTTTCTTCTCTCTGCTGTCAAAATGAGAGTTAGATTTAT	329
Qy	120	TTTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTATGGGGAGGCTGTGG	179
Db	328	TTTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTATGGGGAGGCTGTGG	269
Qy	180	GGCAGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCGAACTGCTCAT	239
Db	268	GGCAGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCGAACTGCTCAT	209
Qy	240	TTCTGCTACTTCTTTCCCTTCTGCTTCATGCTACTACAAAATAGTTCATTCGATGCAAT	299
Db	208	TTCTGCTACTTCTTTCCCTTCTGCTTCATGCTACTACAAAATAGTTCATTCGATGCAAT	149
Qy	300	GGTGAGGCCCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGGCCATCTCTACACTG	359
Db	148	GGTGAGGCCCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGGCCATCTCTACACTG	89
Qy	360	GTCAGGTCCTTCATTTATTGTCACAGCAGAGGCTTTTGTGATTTTCCAAAAATCC	419
Db	88	GTCAGGTCCTTCATTTATTGTCACAGCAGAGGCTTTTGTGATTTTCCAAAAATCC	29
Qy	420	AGGGAATCTCTTTTCCATGAGTACTCTC	447
Db	28	AGGGAATCTCTTTTCCATGAGTACTCTC	1

RESULT 39

US-10-085-783A-56504/c
; Sequence 56504, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:

; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A

QY 185 ATTCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGGAGGAGGAACTGCTCAATTTCTG 244
 DB 406 ATTCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGGAGGAGGAACTGCTCAATTTCTG 347
 QY 245 CCTACTCTTTCCCTTCTGCTTCTATGTGTACTACAAAATAGTCTATGCGATGCAATGGTA 304
 DB 346 CCTACTCTTTCCCTTCTGCTTCTATGTGTACTACAAAATAGTCTATGCGATGCAATGGTA 287
 QY 305 GCGCCGCAATTAGGGAAGAAAGCTCTCGAAGCCACCTTTGCCATCTCTACACTGGTCCA 364
 DB 286 GCGCCGCAATTAGGGAAGAAAGCTCTCGAAGCCACCTTTGCCATCTCTACACTGGTCCA 227
 QY 365 GGTCTCTCATTTATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAATCCAGGGA 424
 DB 226 GGTCTCTCATTTATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAATCCAGGGA 167
 QY 425 ACTCTCTTTCCATGAGTACTCTCAGGTCCTCTCTTGTAACTAGCTTTATCCCCAGGGA 484
 DB 166 ACTCTCTTTCCATGAGTACTCTCAGGTCCTCTCTTGTAACTAGCTTTATCCCCAGGGA 107
 QY 485 ATTTGTGAATGTAAACATCATGTGTTTCCATGCGGTGTTCCATTTGAGATGGCATTTTGG 544
 DB 106 ATTTGTGAATGTAAACATCATGTGTTTCCATGCGGTGTTCCATTTGAGATGGCATTTTGG 47
 QY 545 TG 546
 DB 46 TG 45
 RESULT 42
 US-09-997-003-26/c
 ; Sequence 26, Application US/09997003
 ; Publication No. US20030203361A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: PA003P1
 ; CURRENT APPLICATION NUMBER: US/09/997,003
 ; CURRENT FILING DATE: 2001-11-30
 ; PRIOR APPLICATION NUMBER: unassigned
 ; PRIOR FILING DATE: 2001-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US00/22157
 ; PRIOR FILING DATE: 2000-08-11
 ; PRIOR APPLICATION NUMBER: 60/148,680
 ; PRIOR FILING DATE: 1999-08-13
 ; NUMBER OF SEQ ID NOS: 56
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 26
 ; LENGTH: 441
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-997-003-26
 Query Match 34.3%; Score 411; DB 10; Length 441;
 Best Local Similarity 100.0%; Pred.No. 6.4e-111;
 Matches 411; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGAACCTAAAAGAACTTTATTTATTGAGGCAAGGGATGCAACAAATACAAAATCAA 60
 DB 418 GGAACCTAAAAGAACTTTATTTATTGAGGCAAGGGATGCAACAAATACAAAATCAA 359
 QY 61 AAGCTTATCTGGTATTTAACTTTTCTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 120
 DB 358 AAGCTTATCTGGTATTTAACTTTTCTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 299
 QY 121 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGG 180
 DB 298 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGG 239
 QY 181 CGAGATTCCTTAAGCGACCCCTTTGGGACAACTTTATCAGGGAGGAGGCACTCTCATTT 240
 DB 238 CGAGATTCCTTAAGCGACCCCTTTGGGACAACTTTATCAGGGAGGAGGCACTCTCATTT 179

QY 241 TCTGCCCTACTTCTTTTCCCTTCTGCTTCACTGTGTACTACAAAATAGTCAATGCAATG 300
 DB 178 TCTGCCCTACTTCTTTTCCCTTCTGCTTCACTGTGTACTACAAAATAGTCAATGCAATG 119
 QY 301 GTGAGGCCCCCAATTAGGGAAGAAAGCTCTGGAAGCCCACTTTGGCCATCTCTACACTGG 360
 DB 118 GTGAGGCCCCCAATTAGGGAAGAAAGCTCTGGAAGCCCACTTTGGCCATCTCTACACTGG 59
 QY 361 TCAGGTCCTTCTCATTTATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCC 411
 DB 58 TCAGGTCCTTCTCATTTATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCC 8
 RESULT 43
 US-10-106-698-2418/c
 ; Sequence 2418, Application US/10106698
 ; Publication No. US20030109690A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ruben et al.
 ; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
 ; FILE REFERENCE: PA005P1
 ; CURRENT APPLICATION NUMBER: US/10/106,698
 ; CURRENT FILING DATE: 2002-03-27
 ; PRIOR APPLICATION NUMBER: PCT/US00/26524
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: US 60/157,137
 ; PRIOR FILING DATE: 1999-09-29
 ; PRIOR APPLICATION NUMBER: US 60/163,280
 ; PRIOR FILING DATE: 1999-11-03
 ; NUMBER OF SEQ ID NOS: 8564
 ; SOFTWARE: PatentIn Ver. 3.0
 ; SEQ ID NO 2418
 ; LENGTH: 632
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (7)..(7)
 ; OTHER INFORMATION: n equals a,t,g, or c
 ; NAME/KEY: misc_feature
 ; LOCATION: (24)..(24)
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 ; LOCATION: (40)..(40)
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 ; NAME/KEY: misc_feature
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 ; OTHER INFORMATION: n equals a,t,g, or c
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 ; OTHER INFORMATION: n equals a,t,g, or c
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 ; LOCATION: (389)..(389)
 ; OTHER INFORMATION: n equals a,t,g, or c
 ; NAME/KEY: misc_feature
 ; LOCATION: (390)..(390)
 ; OTHER INFORMATION: n equals a,t,g, or c
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 ; LOCATION: (463)..(463)
 ; OTHER INFORMATION: n equals a,t,g, or c

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 17, 2005, 22:33:12 ; Search time 5198 Seconds
(without alignments)
11176.953 Million cell updates/sec

Title: US-10-735-577-16
Perfect score: 1199
Sequence: 1 ggaactaaaaaagaacttta.....cgggcttcgcgcacccg 1199

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl.*
1: gb_ba.*
2: gb_htg.*
3: gb_in.*
4: gb_on.*
5: gb_ov.*
6: gb_pat.*
7: gb_ph.*
8: gb_pl.*
9: gb_pr.*
10: gb_ro.*
11: gb_rts.*
12: gb_sy.*
13: gb_un.*
14: gb_vi.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	640.8	53.4	185447	9	AL450992 Human DNA
2	638	53.2	638	6	CQ715898 Sequence
3	637.8	53.2	673	9	BC015973 Homo sapi
4	601	50.1	649	6	CQ878718 Sequence
5	601	50.1	649	6	AR489221 Sequence
6	601	50.1	649	6	AX409703 Sequence
7	601	50.1	649	6	AX710164 Sequence
8	601	50.1	649	6	AX779835 Sequence
9	601	50.1	649	9	M38591 Homo sapien
10	598	49.9	609	9	M81457 Human calpa
11	557	46.5	579	6	AR489209 Sequence
12	537	44.8	571	6	AX396675 Sequence
13	530	44.2	646	9	AX179865 Macaca mu
14	523	43.6	582	6	AX899035 Sequence
15	523	43.6	582	6	BD034568 Sequence
16	516	43.0	538	6	CQ702692 Sequence
17	485.2	40.5	2016	6	AX616317 Sequence
18	471.6	39.3	482	6	CQ701466 Sequence
19	461.4	38.5	472	6	CQ713004 Sequence

C 20	448	37.4	480	6	CQ704196
C 21	446.4	37.2	474	6	CQ711110
C 22	434.4	36.2	448	6	CQ711578
C 23	434	36.2	604	4	BOVCALPI
C 24	423	35.3	434	6	AX777886
C 25	389.2	32.5	480	9	HUMPL1A
C 26	377.4	31.5	392	6	CQ700639
C 27	374.2	31.2	534	4	AB098817
C 28	363.6	30.3	384	6	CQ709131
C 29	348.8	29.1	604	10	BC025044
C 30	344.8	28.8	365	6	CQ706246
C 31	343.6	28.7	600	6	AX306168
C 32	343.6	28.7	600	10	MUSCALPI
C 33	343	28.6	407	6	CQ711127
C 34	337.4	28.1	339	6	CQ671113
C 35	330.8	27.6	164679	9	AC005921
C 36	330	27.5	330	6	CQ711784
C 37	329.8	27.5	600	6	BD251901
C 38	329.8	27.5	600	6	AR202142
C 39	329.8	27.5	600	6	AR473726
C 40	329.8	27.5	600	6	AX407293
C 41	329.2	27.5	573	6	AX401698
C 42	329.2	27.5	573	6	AX710160
C 43	329.2	27.5	573	10	RATS100RP
C 44	328.4	27.4	570	6	AR489208
C 45	317	26.4	318	6	AX260435

ALIGNMENTS

RESULT 1
AL450992
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

AL450992 185447 bp DNA linear PRI 18-JAN-2002
Human DNA sequence from clone RP11-139D23 on chromosome 1, complete
sequence.
AL450992 AC024491
AL450992.17 GI:18375805
HTG.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Martin, S.
Direct Submission
Submitted (18-JAN-2002) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquerry@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
On Jan 25, 2002 this sequence version replaced gi:16116488.
During sequence assembly data is compared from overlapping clones.
Where differences are found these are annotated as variations
together with a note of the overlapping clone name. Note that the
variation annotation may not be found in the sequence submission
corresponding to the overlapping clone, as we submit sequences with
only a small overlap as described above.
This sequence was finished as follows unless otherwise noted: all
regions were either double-stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by at least
one plasmid subclone or more than one M13 subclone; and the
assembly was confirmed by restriction digest. The following
abbreviations are used to associate primary accession numbers given
in the feature table with their source databases: Em: EMBL; Sw:
SWISSPROT; Tr: TREMBL; Wp: WORMPEP; Information on the WORMPEP
database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence
was generated from part of bacterial clone contigs of human
chromosome 1, constructed by the Sanger Centre Chromosome 1 Mapping
Group. Further information can be found at
http://www.sanger.ac.uk/HGP/Chr1
RP11-139D23 is from the library RPCI-11.1 constructed by the group

of Pieter de Jong. For further details see
http://www.chori.org/bacpac/home.htm
VECTOR: pBACe3.6

This sequence is the entire insert of clone Rp11-139D23 The true
left end of clone Rp11-353M1 is at 85124 in this sequence. The true
right end of clone Rp11-98D18 is at 22235 in this sequence.

FEATURES

source

1. .185447
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="1"
/clone="RP11-139D23"
/clone_lib="RPC1-11.1"
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/notes="Single clone region. Sequence from reads from a
short insert library derived from a clone PCR. Restriction
digest data confirm the assembly."
108101..108200
/notes="Single clone region. Sequence from reads from a
short insert library derived from a clone PCR. Restriction
digest data confirm the assembly."
108708..108843
/notes="Single clone region. Sequence from reads from a
short insert library derived from a clone PCR. Restriction
digest data confirm the assembly."

misc_feature

misc_feature

misc_feature

ORIGIN

Query Match 53.4%; Score 640.8; DB 9; Length 185447;
Best Local Similarity 97.5%; Pred. No. 7.3e-126;
Matches 651; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
QY 532 GATGGCATTGTTGGTCCGTTGAAGCCTTGGCCGAGCGCGGCGAGCGCTGGCGAG 591
DB 154709 GAGGGGCGCTGGCCGGGGCGAGCTACCTTGGCCGAGCGCGGCGAGCGCTGGCGAG 154768
QY 592 CTGGCGAGCTGACGCGGGCGGAGAGCGGCGCGGGGCTGTGCGCTTCCTTAGT 651
DB 154769 CTGGCGAGCTGGACGCGGGCGGAGAGCGGCGGGGCTGTGCGCTTCCTTAGT 154828
QY 652 ACCTGCGGGGGTGGTAGAGGAGGCGGCGGCGGAGCGGCGGGGCTGTGCGGGGCGCTC 711
DB 154829 ACCTGCGGGGGTGGTAGAGGAGGCGGCGGCGGAGCGGCGGGGCTGTGCGGGGCGCTC 154888
QY 712 GGCAGGCGCTGCCCGAGCGCTGTCTCTCCCTCTCTCTGCGCCCGAGCTCCCGCGACC 771
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QY 772 CCGGCGCGGGCGCCACCGCTCGCTCCCGGACCGCGCTCGCAGAGGCGCTCGCCC 831
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DB 155009 GCGCCAGACAGAGGTTCTTTGTAACCTTCTCTCAGTAGAAGCGTCTGCTCTCGAATA 155068
QY 892 TTTTCAGGCGCTCCCGAGCGCTGCGCTCTCTCTCGGGTTGGTTTAGAAGGTGA 951
DB 155069 TTTTCAGGCGCTCCCGAGCGCTGCGCTCTCTCTCGGGTTGGTTTAGAAGGTGA 155128
QY 952 CAAATCAAGAAACCGGCGCTCTCGGGTGGGCGACGCTGGGCGAGAACAGAGGTAAAC 1011
DB 155129 CAAATCAAGAAACCGGCGCTCTCGGGTGGGCGACGCTGGGCGAGAACAGAGGTAAAC 155188
QY 1012 CGGCTCTGGCGCACCTACGGGTCTAGGAATTACTTCTGGATGACCCCTCAGGGAGTGG 1071
DB 155189 CGGCTCTGGCGCACCTACGGGTCTAGGAATTACTTCTGGATGACCCCTCAGGGAGTGG 155248
QY 1072 CAGTGGAGTCCCTATCAGCTCAGAGCACTATCAGATTAGCCCTAGGAGGTCCGCTGG 1131
DB 155249 CAGTGGAGTCCCTATCAGCTCAGAGCACTATCAGATTAGCCCTAGGAGGTCCGCTGG 155308
QY 1132 GGGTCTCGGGCGGCTGGCGCAGTGGAGGGGGGCGACCTCCCGCAGAGCGGGGCTTCCCGC 1191

DB 155309 GGGTCTCGGGCGGCTGGCGCAGTGGAGGGGCGGACCTCCCGAGAAAGCGGGTCTCCCGC 155368
QY 1192 CCACACGG 1199
DB 155369 CCACACGG 155376
RESULT 2
LOCUS CQ715898/c 638 bp DNA linear PAT 03-FEB-2004
DEFINITION Sequence 1832 from Patent WO02068579.
CQ715898
VERSION CQ715898.1 GI:42276755
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Venter, C.J., Adams, M.C., Li, P.W. and Myers, E.W.
TITLE Kits, such as nucleic acid arrays, comprising a majority of
humanexons or transcripts, for detecting expression and other uses
thereof
JOURNAL Patent: WO 02068579-A 1832 06-SEP-2002;
PE Corporation (NY) (US)
FEATURES
source
1. .638
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN
Query Match 53.2%; Score 638; DB 6; Length 638;
Best Local Similarity 100.0%; Pred. No. 1.5e-125;
Matches 638; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAACCTAAAAAGAACTTTATTATTATGAGGCAAGGGGATGCAAAACAATAAAAAATCAA 60
DB 638 GGNACTAAAAAGAACTTTATTATTATGAGGCAAGGGGATGCAAAACAATAAAAAATCAA 579
QY 61 AAGCTTATCTGGTATTTAACTTTCTCTCTGCTTGTCAAATGAGAGTTAGATTTATT 120
DB 578 AAGCTTATCTGGTATTTAACTTTCTCTCTGCTTGTCAAATGAGAGTTAGATTTATT 519
QY 121 TTACATTTGCTAAGTGCTGCTGATGCTCATGAATCCTTCTATGGGGAAGCTGTGG 180
DB 518 TTACATTTGCTAAGTGCTGCTGATGCTCATGAATCCTTCTATGGGGAAGCTGTGG 459
QY 181 GCAGATTCTTTAAGCGACCTTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAT 240
DB 458 GCAGATTCTTTAAGCGACCTTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAT 399
QY 241 TCTGCTACTCTTTCCCTTCTGCTTCTGCTGATGCTACTACAAAATAGTCAATGCAATG 300
DB 398 TCTGCTACTCTTTCCCTTCTGCTTCTGCTGATGCTACTACAAAATAGTCAATGCAATG 339
QY 301 GTGAGCCCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTGGCATCTCTACACTGG 360
DB 338 GTGAGCCCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTGGCATCTCTACACTGG 279
QY 361 TCCAGGTCTCTTCAATTTTGTCCACAGCGAGAGGCTCTTTTGTATTTTCCAAAAATCCA 420
DB 278 TCCAGGTCTCTTCAATTTTGTCCACAGCGAGAGGCTCTTTTGTATTTTCCAAAAATCCA 219
QY 421 GGAACCTCTTTTCCAAGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGGCTTTATCCCCA 480
DB 218 GGAACCTCTTTTCCAAGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGGCTTTATCCCCA 159
QY 481 GCGAATTTGTGAATGCTAAACATCATGTTTCCATGCGCTGTTCATTTGAGATGCAATT 540
DB 158 GCGAATTTGTGAATGCTAAACATCATGTTTCCATGCGCTGTTCATTTTGAATGCAATT 99

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Qy 541 TTGGTGTGCTCCGTTGAAGCCTTGGCCGAGCGCGCGGAGCTGGCGAGCTGGCGGAG 600
Db 98 TTGGTGTGCTCCGTTGAAGCCTTGGCCGAGCGCGCGGAGCTGGCGAGCTGGCGGAG 39
Qy 601 CTGACCGCGGCGGAGCGGAGCGCGGAGCGCGGAGCTGGT 638
Db 38 CTGACCGCGGCGGAGCGGAGCGCGGAGCGCGGAGCTGGT 1

RESULT 3
BC015973/c
LOCUS
DEFINITION
Homo sapiens S100 calcium binding protein A10 (annexin II ligand, calpactin I, light polypeptide [p11]), mRNA (cdna clone MGC:23737 IMAGE:4103596), complete cds.
ACCESSION
BC015973
VERSION
BC015973.1 GI:16359017
KEYWORDS
MGC.
SOURCE
Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 673)
Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G., Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D., Aitschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K., Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F., Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L., Stapleton,M., Soares,M.B., Bonaldo,M.P., Casavant,T.L., Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S., Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J., Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J., McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S., Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W., Vallalón,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A., Fahey,J., Helton,E., Kettman,M., Madan,A., Young,A.C., Shevchenko,Y., Sanchez,A., Whiting,M., Madan,M., Young,A.C., Rodriguez,S., Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D., Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M., Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smallos,D.E., Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
12477932
2 (bases 1 to 673)
Strausberg,R.
Direct Submission
Submitted (22-OCT-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Institute for Systems Biology
http://www.systemsbioology.org
contact: amadansystemsbiology.org
Anup Madan, Jessica Fahey, Erin Helton, Mark Kettelman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
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Location/Qualifiers
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source

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Best Local Similarity 99.7%; Pred. No. 1.7e-125; Indels 0; Gaps 0;
Matches 639; Conservative 0; Mismatches 25;

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Qy 121 TTACATTTGCTAAGTCTGCTGATCTCATGAAATCCCTTCTATGCGGGAAGCTGGG 180
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Qy 181 GCAGATTCTTAAGCAGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCATT 240
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Qy 241 TCTGCCTACTTCTTCCCTTCTGCTGATGCTGTAATAAATAGTCAATTCATGCAATG 300
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Qy 421 GGGAATCTCTTTTCCATGAGTACTCTCAGTCTCTCTTTGTTAGTAGCCTTTATCCCCA 480
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RESULT 4
CQ878718/c

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LOCUS CQ878718 649 bp DNA linear PAT 04-OCT-2004
DEFINITION Sequence 3 from Patent WO2004080424.
ACCESSION CQ878718
VERSION CQ878718.1 GI:53791165
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Yeh,L.A., Cuny,G.D., Padmanaban,D. and Ding,K.
TITLE Methods and compositions for neurite outgrowth detection
JOURNAL Patent: WO 2004080424-A 3 23-SEP-2004;
THE BRIGHAM AND WOMEN'S HOSPITAL, INC. (US)
FEATURES
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ORIGIN
Query Match 50.1%; Score 601; DB 6; Length 649;
Best Local Similarity 99.7%; Pred. No. 1.2e-117;
Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;
QY 1 GGAACATAAAAGAACTTTATTATTGAGGCAAGGGATGCAACAATACAAAAATCAA 60
DB 649 GGAACATAAAAGAACTTTATTATTGAGGCAAGGGATGCAACAATACAAAAATCAA 590
QY 61 AAGCTTATCTGGTATTAACTTTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 120
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QY 121 TTACATTTCTAAGTGTCTGATCTGCTCATGAAATCTCTTATGAGGAGGAGCTGCTCA 180
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QY 601 CTGGACCGCGGCGGAGAGCGGAGC 625
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Db 51 CTGGACCGCGGCGGAGAGCGGAGC 27
RESULT 5
LOCUS AR489221/c
DEFINITION Sequence 36 from patent US 6709855.
ACCESSION AR489221
VERSION AR489221.1 GI:47256166
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 649)
AUTHORS Stanton,L.W., White,R.T., Damm,D.L., Lewicki,J.A., Joly,A. and Schreiner,G.F.
TITLE Methods for detection and use of differentially expressed genes in disease states
JOURNAL Patent: US 6709855-A 36 23-MAR-2004;
FEATURES
source Location/Qualifiers
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ORIGIN
Query Match 50.1%; Score 601; DB 6; Length 649;
Best Local Similarity 99.7%; Pred. No. 1.2e-117;
Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;
QY 1 GGAACATAAAAGAACTTTATTATTGAGGCAAGGGATGCAACAATACAAAAATCAA 60
DB 649 GGAACATAAAAGAACTTTATTATTGAGGCAAGGGATGCAACAATACAAAAATCAA 590
QY 61 AAGCTTATCTGGTATTAACTTTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 120
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DB 469 GCAGATTCTTAAAGCAACCTTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTC 411
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DB 51 CTGGACCGCGGCGGAGAGCGGAGC 27

RESULT 6	AX409703/c	649 bp	DNA	linear	PAT 14-JUN-2002
LOCUS	Sequence 2350 from Patent WO0229103.				
DEFINITION	AX409703				
ACCESSION	AX409703.1	GI:21442408			
VERSION					
KEYWORDS					
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
TITLE	1				
JOURNAL	Alvares, C., Horne, D., Peres-da-Silva, S. and Vockley, J.G.				
	Gene expression profiles in liver cancer				
	Patent: WO 0229103-A 2350 11-APR-2002;				
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Qy	61	AAGCTTATCTGGTATTTAACTTTTCTCTCTGCTGTGCAAAATGAGAGTTAGATTTTTATT	120		
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RESULT 8
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LOCUS AX779835 649 bp DNA linear PAT 14-JUL-2003
DEFINITION Sequence 1992 from Patent WO03039443.
ACCESSION AX779835
VERSION AX779835.1 GI:32696829
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Haferlach, T., Schoch, C., Kern, W., Kohlmann, A., Schmittger, S., Dugas, M., Ellis, R., Brors, B. and Mergenthaler, S.
TITLE Novel genetic markers for leukemias
JOURNAL Patent: WO 03039443-A 1992 15-MAY-2003; Deutsches Krebsforschungszentrum (DE); Ludwig-Maximilian-Universitaet Muenchen (DE); Haferlach, Torsten, PD Dr. Dr. (DE); Schoch, Claudia (DE); Kern, Wolfgang (DE)
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Query Match 50.1%; Score 601; DB 6; Length 649;
Best Local Similarity 99.7%; Pred. No. 1.2e-117;
Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;
Qy 1 GGAACTAAAGAAGCACTTTATTTCAGGCGGAGGGATGCAACAATACAAATCA 60
Db 649 GGAACTAAAGAAGCACTTTATTTCAGGCGAAGGGATGCAACAATACAAATCA 590
Qy 61 AAGCTTATCTGGTATTAACTTTTCTCTCTGCTCAAAATGAGATTAGATTTATT 120
Db 589 AAGCTTATCTGGTATTAACTTTTCTCTCTGCTCAAAATGAGATTAGATTTATT 530
Qy 121 TTACATTTGCTAAGTCTCTGATCTGCTCATGAATCCCTTTATGCGGGAAGCTGTGG 180
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RESULT 9
HUMCLANNII/c
LOCUS HUMCLANNII 649 bp mRNA linear PRI 31-DEC-1994
DEFINITION Homo sapiens cellular ligand of annexin II (p11) mRNA, complete cds.
ACCESSION M38591
VERSION M38591.1 GI:180595
KEYWORDS cellular ligand of annexin II.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Kube, E., Weber, K. and Gerke, V.
TITLE Primary structure of human, chicken, and Xenopus laevis p11, a cellular ligand of the Src-kinase substrate, annexin II
JOURNAL Gene 102 (2), 255-259 (1991)
MEDLINE 91340161
PUBMED 1831433
COMMENT Original source text: Homo sapiens (tissue library: lambda-GT10) adenocarcinoma cDNA to mRNA. Draft entry and computer-readable sequence for [Unpublished (1990)] kindly submitted by V.Gerke, 17-SEP-1990. Max-Planck-Institute for Biophysical Chemistry Dept Biochemistry Am Fassberg D-3400 Goettingen, FRG.

FEATURES
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ORIGIN
Query Match 50.1%; Score 601; DB 9; Length 649;
Best Local Similarity 99.7%; Pred. No. 1.2e-117;
Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;
Qy 1 GGAACTAAAGAAGCACTTTATTTCAGGCGAAGGGATGCAACAATACAAATCA 60
Db 649 GGAACTAAAGAAGCACTTTATTTCAGGCGAAGGGATGCAACAATACAAATCA 590
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181 GCAGATTCCTTAAGCGACCTTTGGGCAACTCTTATCAGGAGGAGCGAAGCTGCTCAT 240
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51 CTGACGCGGCGGCGGAGCGGAGC 27

RESULT 10
LOCUS HUMCALPAIL/ 609 bp mRNA linear PRI 31-DEC-1994
DEFINITION Human calpactin 1 light chain mRNA, complete cds.
ACCESSION M81457
VERSION M81457.1 GI:179874
KEYWORDS calpactin I light chain.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Dooley,T.P., Weiland,K.L. and Simon,M.
TITLE cDNA sequence of human p11 calpactin I light chain
JOURNAL Genomics 13 (3), 866-868 (1992)
MEDLINE 92347895
PUBMED 1386341
COMMENT Original source text: Homo sapiens (tissue library: lambda gt11)
CDNA to mRNA.

FEATURES
source
Location/Qualifiers
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/map="presumed at 1q21"
/cell_type="primary keratinocyte"
/tissue_lib="lambda gt11"
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72..365
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/codon_start=1
/product="calpactin I light chain"
/protein_id="AAAS8404.1"
/db_xref="GI:179875"

/translation="MPSQMEHMETMFTFHKFGDKGYLTKDLRLVLMKBPFGPLE
NQKDLAVDKIMKMDLQCRDQGVQSFSLIAGLTIACNDYFVVMHKQKQK"
584..593
/gene="calpactin 1 light chain"
polyA_signal
ORIGIN
Query Match 49.9%; Score 598; DB 9; Length 609;
Best Local Similarity 99.8%; Pred. No. 5.2e-117;
Matches 609; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 GGAACATAAAGAAAGCACTTTATTTATTTAGGGCAAGGGGATGCAAAACAATCAAAAATCAA 60
DB 609 GGAACATAAAGAAAGCACTTTATTTATTTAGGGCAAGGGGATGCAAAACAATCAAAAATCAA 550
QY 61 AAGCTATCTGTTGTTAACTTTTCTCTCTCTGTCCTCAAAATGAGAGTTAGATTTTATT 120
DB 549 AAGCTATCTGTTGTTAACTTTTCTCTCTCTGTCCTCAAAATGAGAGTTAGATTTTATT 490
QY 121 TTTACATTTGCTAAGTGTCTGATCTGCTCATGCAAAATCCTTCTATGGGGAAGCTGTGGG 180
DB 489 TTTACATTTGCTAAGTGTCTGATCTGCTCATGCAAAATCCTTCTATGGGGAAGCTGTGGG 430
QY 181 GCAGATTCCTTAAGCGACCTTTTGGGCAACTCTTATCAGGAGGAGCGAAGCTGCTCAT 240
DB 429 GCAGATTCCTTAAGCGACCTTTTGGGCAACTCTTATCAGGAGGAGCGAAGCTGCTCAT 371
QY 241 TCTGCTACTTCTTTCCCTTCTGCTTCTCATGTGTACTACAAAATAGTCAATGCAATG 300
DB 370 TCTGCTACTTCTTTCCCTTCTGCTTCTAGTGTACTACAAAATAGTCAATGCAATG 311
QY 301 GTGAGGCGCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
DB 310 GTGAGGCGCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 251
QY 361 TCCAGGTCTCTTCAATTAATTTGTCCACAGCCAGAGGCTTTTGTATTTCCAAAATCCA 420
DB 250 TCCAGGTCTCTTCAATTAATTTGTCCACAGCCAGAGGCTTTTGTATTTCCAAAATCCA 191
QY 421 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTAAAGTACGCTTTATCCCA 480
DB 190 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTAAAGTACGCTTTATCCCA 131
QY 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAAT 540
DB 130 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAAT 71
QY 541 TTGGTGTGTCCTGCTTGAAGCTTGGCGAGCGCGGAGCGCTGTGGCGGAG 600
DB 70 TTGGTGTGTCCTGCTTGAAGCTTGGCGAGCGCGGAGCGCTGTGGCGGAG 11
QY 601 CTGACGCGGCGG 610
DB 10 CTGACGCGG 1

RESULT 11
LOCUS AR489209/c 579 bp DNA linear PAT 15-MAY-2004
DEFINITION Sequence 24 from patent US 6709855.
ACCESSION AR489209
VERSION AR489209.1 GI:47256154
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 579)
AUTHORS Stanton,L.W., White,R.T., Damm,D.L., Lewicki,J.A., Joly,A. and
Schreiner,G.F.
TITLE Methods for detection and use of differentially expressed genes in
disease states
JOURNAL Patent: US 6709855-A 24 23-MAR-2004;
FEATURES Location/Qualifiers
source
1..579


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ORIGIN
Query Match 46.5%; Score 557; DB 6; Length 579;
Best Local Similarity 99.7%; Pred. No. 2.9e-108;
Matches 579; Conservative 0; Mismatches 0; Indels 2; Gaps 2;
/organism="unknown"
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Db GGAACCTAAAAGAACTTTATTTATTTGAGGCGCAAGGGATGCAAAACAATACAAATCAAAATCAA 579
QY 61 AAGCTATCTGGTATTTAACTTTTCTCTGCTCAAAATGAGAGTTAGATTTTATT 120
Db AAGCTATCTGGTATTTAACTTTTCTCTGCTCAAAATGAGAGTTAGATTTTATT 519
QY 121 TTACATTTGCTAAGTCTCTGATCTGCTCATGAAATCTTATCAGGGAGGAGCGAAGCTGTGGG 180
Db TTACATTTGCTAAGTCTCTGATCTGCTCATGAAATCTTATCAGGGAGGAGCGAAGCTGTGGG 459
QY 181 GCAGATTCCTTAAGCGACCTTTTGGGACAACTCTTATCAGGGAGGAGCGAAGCTGTCAATT 240
Db GCAGATTCCTTAAGCGACCTTTTGGGACAACTCTTATCAGGGAGGAGCGAAGCTGTCAATT 399
QY 241 TCTGCTACTTCTTTCCCTTCTGCTTCATGTGTAACAATAAGTCAATGCAATG 300
Db TCTGCTACTTCTTTCCCTTCTGCTTCATGTGTAACAATAAGTCAATGCAATG 340
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Db GTGAGGCGCGAATTAGGAAAAGAACTCTGAGAGCCCACTTTGCCATCTCTACACTGG 280
QY 361 TCAGAGTCCCTTCAATTTTGTCCACAGCAGAGGCTTTTGTGATTTCCAAATAATCCA 420
Db TCAGAGTCCCTTCAATTTTGTCCACAGCAGAGGCTTTTGTGATTTCCAAATAATCCA 220
QY 421 GGGAACCTCTTTCCATGAGTACTCTCAGGTCTCTCTTTGTAAAGTAGCCCTTTATCCCCA 480
Db GGGAACCTCTTTCCATGAGTACTCTCAGGTCTCTCTTTGTAAAGTAGCCCTTTATCCCCA 160
QY 481 CGCAATTTGTGAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAATT 540
Db CGCAATTTGTGAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAATT 100
QY 541 TTGCTGTGCTCGCTTGAAGCTTGGCGAGCGCGCGGCGAC 581
Db TTGCTGTGCTCGCTTGAAGCTTGG-CGAGCGCGCGCGGAC 1

RESULT 12
AX396675
LOCUS AX396675
DEFINITION Sequence 890 from Patent WO0212328.
ACCESSION AX396675
VERSION AX396675.1 GI:21067422
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS King,G.E., Meagher,M.J., Xu,J. and Secrist,H.
TITLE Compositions and methods for the therapy and diagnosis of colon
cancer
JOURNAL Patent: WO 0212328-A 890 14-FEB-2002;
CORIXA CORPORATION (US)
FEATURES
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1. .571
/organism="Homo sapiens"
/mol_type="unassigned DNA"
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ORIGIN
Query Match 44.8%; Score 537; DB 6; Length 571;
Best Local Similarity 98.7%; Pred. No. 5.2e-104;
Matches 537; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Query Match 44.8%; Score 537; DB 6; Length 571;
Best Local Similarity 98.7%; Pred. No. 5.2e-104;
Matches 537; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GGAACCTAAAAGAACTTTATTTATTTGAGGCGCAAGGGATGCAAAACAATACAAATCAAAATCAA 60
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QY 121 TTACATTTGCTAAGTCTCTGATCTGCTCATGAAATCTTATCAGGGAGGAGCGAAGCTGTGGG 180
Db TTACATTTGCTAAGTCTCTGATCTGCTCATGAAATCTTATCAGGGAGGAGCGAAGCTGTGGG 148
QY 181 GCAGATTCCTTAAGCGACCTTTTGGGACAACTCTTATCAGGGAGGAGCGAAGCTGTCAATT 240
Db GCAGATTCCTTAAGCGACCTTTTGGGACAACTCTTATCAGGGAGGAGCGAAGCTGTCAATT 208
QY 241 TCTGCTACTTCTTTCCCTTCTGCTTCATGTGTAACAATAAGTCAATGCAATG 300
Db TCTGCTACTTCTTTCCCTTCTGCTTCATGTGTAACAATAAGTCAATGCAATG 268
QY 301 GTGAGGCGCGCAATTAGGAAAAGAACTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db GTGAGGCGCGCAATTAGGAAAAGAACTCTGGAAGCCCACTTTGCCATCTCTACACTGG 328
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Db TCAGAGTCCCTTCAATTTTGTCCACAGCAGAGGCTTTTGTGATTTCCAAATAATCCA 388
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Db GCGAATTTGTGAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAATT 508
QY 541 TTGG 544
Db TTGG 571

RESULT 13
AX179865/c
LOCUS AX179865
DEFINITION Macaca mulatta S100 calcium binding protein A10 (S100A10) mRNA,
complete cds.
ACCESSION AX179865.1 GI:27802540
VERSION AX179865
KEYWORDS Macaca mulatta (rhesus monkey)
SOURCE Macaca mulatta
ORGANISM Macaca mulatta
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;
Cercopitheciinae; Macaca.
REFERENCE 1 (bases 1 to 646)
AUTHORS Sun,X.-Y., Tan,Y.-F., Qin,L., Bai,S.-X., Li,F.-X., Qiu,W.,
Piao,Y.-S. and Wang,Y.-L.
TITLE Molecular cloning of genes critical to embryo implantation from
Rhesus monkey by suppression subtractive hybridization
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 646)
AUTHORS Sun,X.-Y., Tan,Y.-F., Qin,L., Bai,S.-X., Li,F.-X., Qiu,W.,
Piao,Y.-S. and Wang,Y.-L.
TITLE Direct Submission
JOURNAL Submitted (14-NOV-2002) State Key Laboratory of Reproductive
Biology, Institute of Zoology, Chinese Academy of Science, Bei Si
Huan Xi Lu, #25, Hai Dian District, Beijing 100080, China
FEATURES
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ORIGIN
Query Match 44.2%; Score 530; DB 9; Length 646;
Best Local Similarity 96.4%; Pred. No. 1.7e-102;
Matches 542; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
Qy 1 GGAACCTAAAGAACTTTATTATTAGGCAAGGGATGCAAAACAATCAAAAAATCAA 60
Db 617 GGAACCTAAAGAACTTTATTATTAGGCAAGGGATGCAAAACAATCAAAAAATCAA 558
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Db 497 TTTCATTTGTAAGTGCTGATCTGCTCATGAATCTTCTATGGGGAAGCTGTGGG 438
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Db 437 CGAATCTCTTAAGCACTTTGGGCAACTTTATATCAGGAGAGCAACTCTCAT 378
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Db 377 TTGCGCTACTTCTTCCCTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 318
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Qy 361 TCCAGGCTCTTCAATTTTGTCCACAGCAGAGGGTCTTTTGAATTTCCAAAAATCCA 420
Db 257 TCCAGGCTCTTCAATTTTGTCCACAGCAGAGGGTCTTTTGAATTTCCAAAAATCCA 198
Qy 421 GGGAACTCTTTCCATGAGTACTCTCAGGTCCTCTTGTGTAAGTAGCCCTTTATCCCA 480
Db 197 GGAACCTCTTTCCATGAGTACTCTCAGGTCCTCTTGTGTAAGTAGCCCTTTATCCCA 138
Qy 481 GCGAATTTGTGAATGTAACATCATGTTTCCATGGCTGCTTCATTTGAGATGGCAATT 540
Db 137 GCGAATTTGTGAATGTAACATCATGTTTCCATGGCTGCTTCATTTGAGACGGCAATT 78
Qy 541 TTGCTGTGGTCCGTTGAAGCCT 562
Db 77 TTGCTGTGGTCTGTTGAAGCCT 56

RESULT 14
AX899035/c
LOCUS BD034568/1
DEFINITION Sequence 14898 from Patent EP103401.
ACCESSION AX899035
VERSION AX899035.1
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Dumas Milne Edwards, J.B., Duclert, A. and Giordano, J.Y.

TITLE Expressed sequence tags and encoded human proteins
JOURNAL Patent: EP 103401-A 14898 06-SEP-2000;
Genet (FR)
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source Location/Qualifiers
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/mol_type="unassigned DNA"
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Query Match 43.6%; Score 523; DB 6; Length 582;
Best Local Similarity 97.9%; Pred. No. 5.1e-101;
Matches 547; Conservative 4; Mismatches 4; Indels 4; Gaps 2;
Qy 30 GGCAAGGGATGCAAAACAATCAAAAAATCAAAAGCTTATCTGTTATTAATCTTTTC 89
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Qy 90 TCTGCTTGTCAATGAGAGTTAGATTATTTTACATTTTGTCTAAGTGTCTGATCTGCT 149
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Qy 150 CATGAATCTCTTATGGGGAAGCTGTGGGGAAGCTGTGGGGAAGCTTCTTAAGCACCCTT 209
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Db 284 CTGGAAGCCCACTTTGCACTCTTACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 225
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Qy 450 GTCTCTCTTTGTTAAGTAGCTTTATCCAGGCAATTTGTGAATGTAACATCATGCT 509
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Qy 570 GGCGCGGCGGAGCTGGGC 588
Db 46 GGCGCGGCGGAGCTGGGC 28

RESULT 15
BD034568/c
LOCUS BD034568
DEFINITION Sequence tag and encoded human protein.
ACCESSION BD034568
VERSION BD034568.1
KEYWORDS GI:22576310
SOURCE JP 2001269182-A/10814.
ORGANISM Homo sapiens (human)
REFERENCE 1
AUTHORS Edwards, J.B.D.M., Duclair, E. and Jordan, J.Y.
TITLE Sequence tag and encoded human protein
JOURNAL Patent: JP 2001269182-A 10814 02-OCT-2001;
COMMENT OS Homo sapiens (human)
PN JP 2001269182-A/10814

PD 02-OCT-2001
PF 24-FEB-2000 JP 2000118773
PR 26-FEB-1999 US 60/122487
PI JEAN BAPTISTE DUMAS MILNE EDWARDS, EIMERIC DUCLAIR, JEAN YVES
PC C12N15/09, C07K14/435, C07K16/18, C12N1/15, C12N1/19, C12N1/21, PC
C12N5/10,
PC C12P21/02, C12P21/08, C12Q1/68/G06F17/30, C12N15/00, C12N5/00, PC
G06F15/40
CC
FH Key Location/Qualifiers.
FEATURES
source 1. 582
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
ORIGIN
Query Match 43.6%; Score 523; DB 6; Length 582;
Best Local Similarity 97.9%; Pred. No. 5.1e-101;
Matches 547; Conservative 4; Mismatches 4; Indels 4; Gaps 2;
Qy 30 GGCAGGGGATGCAAAACATACAAAATCAAAAGCTTATCTGGTATTTAACTTTCTTTC 89
Db 582 GGCAGGGGATGCAAAACATACAAAATCAAAAGCTTATCTGGTATTTAACTTTCTTTC 523
Qy 90 TCTGCTTGTCAATGAGAGTTAGATTTTATTTTACATTTGCTAAGTGCTCTGATCTGCT 149
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Qy 210 ACTCTTATCAGGAGGAGCGAACTGTGCTCATTTCTGCTACTTCTTCCCTTCTGCTTCAT 269
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Qy 390 CAGAGGTCCTTTTGAATTTCCAAAATCAGGAACTCCTTTTCCATGAGTACTCTCAG 449
Db 224 CAGAGGTC - TTTGATTTTCCAAAATCAGGAACTCCTTTTCCATGAGTACTCTCAG 167
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Db 106 TTCCATGCGGTGTTCCATTTGAGATGCGATTTTGGTGGTCCGTTGAAGCCTTTGGCCGA 47
Qy 570 GCGCGGCGGAGCGTGGC 588
Db 46 GCGCGGCGGAGCTGTGCGC 28

REFERENCE 1
AUTHORS Liew C.C., Marshall W.E. and Zhang, H.
TITLE Compositions and methods relating to osteoarthritis
JOURNAL Patent: WO 02070737-A 47618 12-SEP-2002;
Chondrogene Inc. (CA)
FEATURES
source 1. .538
/organism="Homo sapiens"
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ORIGIN
Query Match 43.0%; Score 516; DB 6; Length 538;
Best Local Similarity 98.9%; Pred. No. 1.6e-99;
Matches 530; Conservative 0; Mismatches 5; Indels 1; Gaps 1;
Qy 8 AAAAAAAGCTTTATTTATTGAGGGCAAGGGGATGCAAAACAAATACAAAAATCAAAAGCTTA 67
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Qy 68 TCTGCTATTAACTTTTCTTCTGCTTGTCAAATGAGAGTTAGATTTTATTTTACAT 127
Db 475 TCTGCTATTAACTTTTCTTCTGCTTGTCAAATGAGAGTTAGATTTTATTTTACAT 416
Qy 128 TTGCTAAGTGCTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGGGCAGATT 187
Db 415 TTGCTAAGTGCTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGGGCAGATT 356
Qy 188 CTTAAAGCAACCCCTTTGGGCAACTCTTATCAGGGAGGAGCGAACTGTCTCATTTCTGCCT 247
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Qy 248 ACTTCTTTCCCTTCTGCTTCTGCTGCTACTACAAAATAGTCAATGCAATGCAATGCGTGGGC 307
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Qy 368 CTTTCATTTTGTCCACAGGAGGCTCTTTTGTATTTTCCAAAAATCCAGGAACT 427
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Db 115 CTTTTCATGAGTACTCTCAGGTCCTTCTTCTGCTTAAAGTAGCTTTATCCCGAGCGAAT 56
Qy 488 TGTGAAATGTAAACATCATGGTTTCCATGGCGTGTTCCTATTTGAGATGGCAATTTG 543
Db 55 TGTGAAATGTAAACATCATGG - AACCATGGCGTGTTCCTATTTGAGATGGCAATTTG 1
RESULT 17
AX616317/c 2016 bp DNA linear PAT 20-FEB-2003
LOCUS Sequence 1 from Patent WO02094864.
DEFINITION AX616317
ACCESSION AX616317
VERSION AX616317.1 GI:28447361
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Homo sapiens
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Bejanin, S. and Tanaka, H.
TITLE Human cdnas and proteins and uses thereof
JOURNAL Patent: WO 02094864-A 1 28-NOV-2002;
GENSET (FR)
FEATURES
source Location/Qualifiers
1. .2016
/organism="Homo sapiens"


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Db 472 TATTTAACTTTCTCTCTGTCAAAATGAGAGTTAGATTTTATTTTACATTTGCT 413
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Qy 193 AGCGACCTTTGGGACAACCTTTATCAGGGAGGAGCGAACTGCTCATTTCTGCTACTTTC 252
Db 352 AGCGACCTTTGGGACAACCTTTATCAGGGAGGAGCGAACTGCTCATTTCTGCTACTTTC 293
Qy 253 TTTCCCTTCTGCTTCAATGCTGTACAAATAGTCAATGCAATGCTGAGGCGCGCA 312
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Db 112 TCCATGAGTACTCTCAGGTCCTCTCTTTGTAAGTAGCTTTATCCCGAGCAATTTGTGA 53
Qy 493 AATCTAAACATCATGTTTCCATGGCGTGTCCATTTGAGATGCAATTTTG 543
Db 52 AATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGAGCAATTTTGG 2

RESULT 20
CQ704196/c
LOCUS CQ704196 480 bp DNA linear PAT 03-FEB-2004
DEFINITION Sequence 49122 from Patent WO02070737.
ACCESSION CQ704196
VERSION CQ704196.1 GI:42264965
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Liew,C.C., Marshall,W.E. and Zhang,H.
TITLE Compositions and methods relating to osteoarthritis
JOURNAL Patent: WO 02070737-A 49122 12-SEP-2002;
Chondrogene Inc. (CA)
FEATURES
source 1. 480
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 37.4%; Score 448; DB 6; Length 480;
Best Local Similarity 95.8%; Pred. No. 4.9e-85;
Matches 460; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

Qy 3 AACTAAAAAGAACTTTATTTATGAGGCAAGGGATGCAAAATACAAAAATCAAAA 62
Db 480 ACCTAAAAAGAACCTTTATTTATGAGGCAAGGGATGCAAAATACAAAAATCAAAA 421
Qy 63 GCTTATCTGTTATTTAACTTTCTCTCTGCTGTGCAAAATGAGAGTTAGATTTATTTT 122
Db 420 GCTTATCTGTTATTTAACTTTCTCTCTGCTGTGCAAAATGAGAGTTAGATTTATTTT 361
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Qy 183 AGATTCCTTAAGGACCTTTTGGAGCACTTTATCAGGAGGAGCGAACTGCTCATTTTC 242
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Qy 243 TGCTACTTCTTTCCCTTCTGCTTCTATGTTACTACAAAATAGTCAATTTGCAATGGT 302
Db 240 TGCTACTTCTTTCCCTTCTGCTTCTATGTTACTACAAAATAGTCAATTTGCAATGGT 181
Qy 303 GAGGCCGCAATTTAGGAAAAAGAGCTCTGGAAGCCACCTTTTGCCATCTCTACACTGGTC 362
Db 180 GAGGCCGCAATTTAGGAAAAAGAGCTCTGGAAGCCACCTTTTGCCATCTCTACACTGGTC 121
Qy 363 CAGGTCCTTCATTTATTTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCAAAAATCCAGG 422
Db 120 CAGGTCCTTCATTTATTTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCAAAAATCCAGG 61
Qy 423 GAACTCCTTTTCCATCAGTACTCTCAGGTCCTCTCTTTTGTAACTAGTCCCTTTATCCCAGC 482
Db 60 GAACTCCTTTTCCATCAGTACTCTCAGGTCCTCTCTTTTGTAACTAGTCCCTTTTCCCAGC 1

RESULT 21
CQ711110/c
LOCUS CQ711110 474 bp DNA linear PAT 03-FEB-2004
DEFINITION Sequence 56036 from Patent WO02070737.
ACCESSION CQ711110
VERSION CQ711110.1 GI:42271967
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Liew,C.C., Marshall,W.E. and Zhang,H.
TITLE Compositions and methods relating to osteoarthritis
JOURNAL Patent: WO 02070737-A 56036 12-SEP-2002;
Chondrogene Inc. (CA)
FEATURES
source 1. 474
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 37.2%; Score 446.4; DB 6; Length 474;
Best Local Similarity 98.9%; Pred. No. 1.1e-84;
Matches 469; Conservative 0; Mismatches 3; Indels 2; Gaps 2;

Qy 9 ABAAGAACTTTATTTATGAGGCAAGGGATGCAAAATACAAAATCAAAAGCTTA 67
Db 474 ABAAGAACTTTATTTATGAGGCAAGGGATGCAAAATACAAAATCAAAAGCTTA 415
Qy 68 TCTGGTATTTAACTTTTCTCTCTGCTGTCAAAATGAGAGTTAGATTTTATTTTACAT 127
Db 414 TCTGGTATTTAACTTTTCTCTCTGCTGTCAAAATGAGAGTTAGATTTTATTTTACAT 355
Qy 128 TTGCTAAGTGCTCTGATCTGCTCATGAAATCCCTTCTATGGGGAAGCTGTGGGCGAGATT 187
Db 354 TTGCTAAGTGCTCTGATCTGCTCATGAAATCCCTTCTATGGGGAAGCTGTGGGCGAGATT 295
Qy 188 CCTTAGCGACCTTTTGGGCAACTCTTATCAGGAGGAGCGAACTGCTCATTTCTGCCT 247
Db 294 CCTTAGCGACCTTTTGGGCAACTCTTATCAGGAGGAGCGAACTGCTCATTTCTGCCT 235
Qy 248 ACTTCTTTCCCTTCTCTCTCATGTGTACTACAAAATAGTCAATTTGCAATGGTGAGGC 307
Db 234 ACTTCTTTCCCTTCTCTCTCATGTGTACTACAAAATAGTCAATTTGCAATGGTGAGGC 175
Qy 308 CCACAATTTAGGAAAAAGAGCTCTGGAAGCCCACTTTTGGCATCTCTACACTGCTCAGGT 367
Db 174 CCACAATTTAGGAAAAAGAGCTCTGGAAGCCCACTTTTGGCATCTCTACACTGCTCAGGT 115
Qy 368 CTTTCATTTATTTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAATCCAGGGAAC 427
Db 114 CTTTCATTTATTTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAATCCAGGGAAC 55
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Db	124	CTGCAAAATTTGTGAAATGTGAACATCATGTTTCCATGGCGTGCTCTCCATTTTGAGACGGCA	65
Qy	539	TTTTGGTGTGTCCTCGTTGAAGCCTTGGCG	568
Db	64	TTTTGGTGAAGTCTGTTGAAACCTTGGCG	35
RESULT 24			
AX777886/c			
LOCUS	AX777886	434 bp	DNA linear PAT 14-JUL-2003
DEFINITION	Sequence 43 from Patent WO03039443.		
ACCESSION	AX777886		
VERSION	AX777886.1	GI:32694880	
KEYWORDS	Homo sapiens (human)		
SOURCE	Homo sapiens		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
AUTHORS	1 Haerlich,T., Schoch,C., Kern,W., Kohlmann,A., Schnittger,S., Dugas,M., Ellis,R., Brors,B. and Mergenthaler,S.		
TITLE	Novel genetic markers for leukemias		
JOURNAL	Patent: WO 03039443-A 43 15-MAY-2003; Deutsches Krebsforschungszentrum (DE) ; Ludwig-Maximilian-Universitaet Muenchen (DE) ; PD Dr. Dr. (DE) ; Schoch, Claudia (DE) ; Kern, Wolfgang (DE)		
FEATURES	Location/Qualifiers		
source	1..434 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"		
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Query Match	35.3%; Score 423; DB 6; Length 434;		
Best Local Similarity	99.8%; Pred. No. 1e-79;		
Matches	434; Conservative 0; Mismatches 0; Indels 1; Gaps 1;		
Qy	126	ATTTGCTAAAGTGTCTCATCTGCTCATGAAATCCTTCTATGGGGAAGCTGTGGGGCAGA	185
Db	434	ATTTGCTAAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGAAGCTGTGGGGCAGA	375
Qy	186	TTCCCTTAAGCGACCCCTTTGGGACAATCTTTATCAGGGAGGAGCACTGCTCATTTCTGC	245
Db	374	TTCCCTTAAGCGACCCCTTT-GGACAACTCTTATCAGGGAGGAGCACTGCTCATTTCTGC	316
Qy	246	CTACTTTTCTCCCTTCGCTTCATGTGTACTACAAAATGCTATTGCATGCAATGGTGAG	305
Db	315	CTACTTTTCTCCCTTCGCTTCATGTGTACTACAAAATGCTATTGCATGCAATGGTGAG	256
Qy	306	GCCCGCAATTAGGGAAGAAGCTCTCGAAGCCCCACTTTGCGATCTCTACACTGGTCCAG	365
Db	255	GCCCGCAATTAGGGAAGAAGCTCTCGAAGCCCCACTTTGCGATCTCTACACTGGTCCAG	196
Qy	366	GTCCCTTCATTATTTTGTCCACAGCAGAGGGTCTTTTTGATTTTCCAAAATCCAGGGAA	425
Db	195	GTCCCTTCATTATTTTGTCCACAGCAGAGGGTCTTTTTGATTTTCCAAAATCCAGGGAA	136
Qy	426	CTCCCTTTCCATGAGTACTCTCAGGTCTCTGTTGTTAAGTAGGCTTTATCCCCAGCGAA	485
Db	135	CTCCCTTTCCATGAGTACTCTCAGGTCTCTGTTGTTAAGTAGGCTTTATCCCCAGCGAA	76
Qy	486	TTTGTGAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGACATGGCATTTTGGT	545
Db	75	TTTGTGAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATTTTGGT	16
Qy	546	GTGTCCTCGTTGAAGC	560
Db	15	GTGTCCTCGTTGAAGC	1
RESULT 25			
HUMP11a/c			
LOCUS	HUMP11a	480 bp	DNA linear PRI 07-JAN-1995

[illegible]

BC025044/c	604 bp	mrna	linear	ROD 29-JUN-2004
LOCUS	Mus musculus S100 calcium binding protein A10 (calpactin), mRNA			
DEFINITION	(CDNA clone MGC:36182 IMAGE:4949465), complete cds.			
ACCESSION	BC025044			
VERSION	BC025044.1	GI:19263549		
KEYWORDS	MGC			
SOURCE	Mus musculus (house mouse)			
ORGANISM	Mus musculus			
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus;				
1 (bases 1 to 604)				
REFERENCE	Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G., Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D., Altshul,S.F., Zeeberg,B., Buelow,K.H., Schaefer,C.F., Bhat,N.K., Hopkins,R.F., Jordan,B., Moore,T., Max,S.I., Wang,J., Hsieh,F., Diatchenko,M., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,D., Scapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L., Scheetz,T.E., Brownstein,M.J., Ustin,T.B., Toshiyuki,S., Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J., Abramson,R.D., Mullaby,S.J., Bosak,S.A., McEwan,P.J., McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S., Morley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W., Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A., Fahey,J., Helton,E., Kettaman,M., Madan,A., Rodrigues,S., Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y., Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D., Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M., Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smalusi,D.E., Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.			
TITLE	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences			
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)			
PUBMED	12477932			
REFERENCE	2 (bases 1 to 604)			
AUTHORS	Strausberg,R.			
TITLE	Direct Submission			
JOURNAL	Submitted (05-WAR-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA			
REMARK	NIH-MGC Project URL: http://mgc.nci.nih.gov			
COMMENT	Contact: MGC help desk Email: cgabs-r@mail.nih.gov Tissue Procurement: Jeffrey Green M.D. cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Baylor College of Medicine Human Genome Sequencing Center Center code: BCM-HGSC Web site: http://www.hgsc.bcm.tmc.edu/cdna/ Contact: amg@bcm.tmc.edu Gunnaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Lounsged, H., Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati, A.N., Gibbs, R.A.			
FEATURES	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAX Plate: 60 Row: g Column: 24 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 6677832. Location/Qualifiers 1..604 /organism="Mus musculus" /mol_type="mRNA" /strain="FVB/N" /db_xref="taxon:10090" /clone="MGC:36182 IMAGE:4949465" /tissue_type="Mammary tumor; C3(1)-Tag model. Infiltrating ductal Carcinoma. 5 month old virgin mouse." /clone_lib="NCI CGAP Mam6" /lab_host="DH10B" /note="Vector: pCMV-SPORT6"			
SOURCE				

REFERENCE
AUTHORS Liew,C.C., Marshall,W.E. and Zhang,H.
TITLE Compositions and methods relating to osteoarthritis
JOURNAL Patent: WO 02070737-A 51172 12-SEP-2002;
Chondrogene Inc. (CA)
FEATURES
source Location/Qualifiers
1..365
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN
Query Match 28.8%; Score 344.8; DB 6; Length 365;
Best Local Similarity 98.4%; Pred.No. 4.8e-63;
Matches 358; Conservative 0; Mismatches 4; Indels 2; Gaps 1;

Qy 1 GGAACTAAAAAGAACCTTTATTATTGAGCGCAAGGGATGCACAAATACAAAATCAA 60
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Db 362 GGAACATAAAGAACCTTTATTATTATTGAGG--CAAGGGATGCACAAATACAAAATCAA 305
|||||
Qy 61 AAGCTTATCTGGTATTTAACTTTTCCTCTCCTTGTCACAAATGAGAGTTAGATTTTTATT 120
|||||
Db 304 AACCTTATCTGGTATTTAACTTTTCCTCTCCTTGTCACAAATGAGAGTTAGATTTTTATT 245
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Qy 121 TTTACATTTGCTAAGTGCTCATGTCTCATGAANAATCCCTTATGSGGGAAGCTGTGGG 180
|||||
Db 244 TTTACATTTGCTAAGTGCTCATGTCTCATGAANAATCCCTTATGSGGGAAGCTGTGGG 185
|||||
Qy 181 GCAGATTCCTTAGCGACCCCTTTGGGACAACCTTTATCAGGGAGGAGCGAAGCTGCTCAT 240
|||||
Db 184 GCAGATTCCTTAGCGACCCCTTTGGGACAACCTTTATCAGGGAGGAGCGAAGCTGCTCAT 125
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Qy 241 TCTGCCCTACTTCTTCCCCTTCGCTTCATGTGTACTACAAAATAGTTCATTGCGATGCAATG 300
|||||
Db 124 TCTGCCCTACTTCTTCCCCTTCGCTTCATGTGTACTACAAAATAGTTCATTGCGATGCAATG 65
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Qy 301 GTGAGCCCCGCAATTAGGGAAAAAGAAGCTCTGGAAGCCCACTTTGGCAATCTCTACACTGG 360
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Db 64 GTGAGCCCCGCAATTAGGGAAAAAGAAGCTCTGGAAGCNAACCTTTGCCATCTCTACACTGG 5
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Qy 361 TCCTA 364
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Db 4 TCCTA 1
|||||

RESULT 31
AX306168/c
LOCUS AX306168 600 bp DNA linear PAT 11-DEC-2001
DEFINITION Sequence 919 from Patent WO0188188.
ACCESSION AX306168
VERSION AX306168.1 GI:17645451
KEYWORDS
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1
AUTHORS Iehikawa,K., Arai,S., Takahashi,Y., Nagata,T. and Ishii,Y.
TITLE Method for examining ischemic conditions
JOURNAL Patent: WO 0189188-A 919 22-NOV-2001;
School Juridical Person Nihon University (JP)
FEATURES
source Location/Qualifiers
1..600
/organism="Mus musculus"
/mol_type="unassigned DNA"
/db_xref="taxon:10090"
ORIGIN
Query Match 28.7%; Score 343.6; DB 6; Length 600;
Best Local Similarity 79.6%; Pred.No. 9.2e-63;
Matches 476; Conservative 0; Mismatches 99; Indels 23; Gaps 5;

Qy 7 AAAAAAGAACCTTTATTATTGAGCGCAAGGGATGCACAAATACAAAATCAAAAGCTT 66

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Castle, A., Cerny, J., Colangelo, M., Collins, S., Collamore, A., Cooke, P., DeArellano, K., Depayre, E., Devon, K., Dewar, K., Donelan, L., Doyle, M., Ferreira, P., FitzHugh, W., Forrest, C., Funke, R., Gage, D., Galagan, J., Gardyna, S., Gilbert, D., Grant, G., Hagos, B., Heaford, A., Horton, L., Howland, J. C., Jones, C., Kann, L., Karatas, A., Lehoczyk, J., Lieu, C., Locke, K., Macdonald, P., Marquis, N., McEwan, P., McGurk, A., McKernan, K., McLaughlin, J., Meldrim, J., Molla, M., Morris, W., Morrow, J., Mychaleckyj, J., Naylor, J., Niloff, M., O'Connor, T., O'Donnell, P., Pavlin, B., Peterson, K., Pollara, V., Riley, R., Roberts, D., Roy, A., Severy, P., Stange-Thomann, N., Stojanovic, N., Stone, C., Subramanian, A., Tesfaye, S., Torruella-Miller, I., Vassiliev, H., Vo, A., Wagner, A., Wheeler, J., Wu, X., Wyman, D., Ye, W. J. and Zody, M.

Direct Submission
Submitted (13-APR-1999) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
5 (bases 1 to 164679)

REFERENCE
AUTHORS
Birren, B., Linton, L., Nusbaum, C., Lander, E., Allen, N., Anderson, M., Baker, J., Baldwin, J., Barna, N., Colangelo, M., Collins, S., Collamore, A., Castle, A., Cerny, J., Galagan, M., Collins, S., Collamore, A., Cooke, P., DeArellano, K., Depayre, E., Devon, K., Dewar, K., Donelan, L., Doyle, M., Ferreira, P., FitzHugh, W., Forrest, C., Funke, R., Gage, D., Galagan, J., Gardyna, S., Gilbert, D., Grant, G., Hagos, B., Heaford, A., Horton, L., Howland, J. C., Jones, C., Kann, L., Karatas, A., Lehoczyk, J., Lieu, C., Locke, K., Macdonald, P., Marquis, N., McEwan, P., McGurk, A., McKernan, K., McLaughlin, J., Meldrim, J., Molla, M., Morris, W., Morrow, J., Mychaleckyj, J., Naylor, J., Niloff, M., O'Connor, T., O'Donnell, P., Pavlin, B., Peterson, K., Pollara, V., Riley, R., Roberts, D., Roy, A., Severy, P., Stange-Thomann, N., Stojanovic, N., Stone, C., Subramanian, A., Tesfaye, S., Torruella-Miller, I., Vassiliev, H., Vo, A., Wagner, A., Wheeler, J., Wu, X., Wyman, D., Ye, W. J. and Zody, M.

Direct Submission
Submitted (03-JUN-1999) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
On Jun 3, 1999 this sequence version replaced gi:4582484.
All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997)
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

Only the last 164679 base pairs of this clone are being submitted. The remainder overlaps accession number AC004590 (WICGR project L314).

FEATURES	source	Location/Qualifiers
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repeat_region		/organism="Homo sapiens"
repeat_region		/mol_type="genomic DNA"
repeat_region		/db_xref="taxon:9606"
repeat_region		/chromosome="17"
repeat_region		/map="17"
repeat_region		/clone="hRPK.294_J_22"
repeat_region		/clone_lib="RPCL-11 human BAC library"
repeat_region		44..130
repeat_region		/rpt_family="L2"
repeat_region		complement(199..353)
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repeat_region		354..645
repeat_region		/rpt_family="AluJo"
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repeat_region		/rpt_family="CT-rich"
repeat_region		2063..2209
repeat_region		/rpt_family="C-rich"
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repeat_region		complement(3506..3797)
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repeat_region	/rpt_family="L1MB2"	complement (4888. .5118)
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repeat_region	/rpt_family="AluSx"	complement (5438. .5651)
repeat_region	/rpt_family="MSTC"	complement (5653. .5938)
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repeat_region	/rpt_family="AluSx"	7317. .7495
repeat_region	/rpt_family="(TTTC)n"	complement (7496. .7777)
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repeat_region	/rpt_family="L2"	complement (8215. .8513)
repeat_region	/rpt_family="AluSg"	complement (8522. .8576)
repeat_region	/rpt_family="MIR"	10158. .10261
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repeat_region	/rpt_family="AluSx"	12057. .12353
repeat_region	/rpt_family="AluSx"	complement (12758. .12815)
repeat_region	/rpt_family="MER5A"	12816. .12981
repeat_region	/rpt_family="MER5A"	complement (13422. .13798)
repeat_region	/rpt_family="L2"	13828. .14208
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repeat_region	/rpt_family="AluSg"	14504. .15234
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repeat_region	/rpt_family="AluJo/FRAM"	complement (18420. .18615)
repeat_region	/rpt_family="MIR"	18748. .18848
repeat_region	/rpt_family="MIR"	complement (18849. .19152)
repeat_region	/rpt_family="MER33"	19153. .19186
repeat_region	/rpt_family="MIR"	19221. .19264
repeat_region	/rpt_family="CT-rich"	19330. .19620
repeat_region	/rpt_family="AluY"	complement (21369. .21624)
repeat_region	/rpt_family="AluSx"	21934. .21979
repeat_region	/rpt_family="MIR"	22021. .22141
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Best Local Similarity	75.6%	Pred. No. 9	le-60	
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Db	130543	AAAAAGAGTGTCAATTTGAGGCCAAGAGGATGCAACAAATCCAAAGACCAAAAGCTTAT	130602	
QY	69	CTGGTATTTAACTTTTCTCTCTGCTTGTCAAATGAGAGTGTAGATTTTATTTTACATT	128	
Db	130603	TATTTAAATTAAC-TTCCTTTCTTTGCTTTGTAGATGAGATTTGGATTTGATGTGCTGT	130661	
QY	129	TGCTAAGTGTCTCATCTGCTCATGAATCTTCTATCGGGGAAGCTGTGGGGCAGATTC	188	
Db	130662	TTCTF--TGGCCCTGGTCTGCTCATGAAGACCTTCTACAGGGGGAAGCTGTGGGCAGGTT	130719	
QY	189	CTTAAGCGACCCCTTTGGGACAACTTATACAGGAGGAGCGAACTGCTCATTTCTGCCTTA	248	
Db	130720	CTATAGCGACTTTTGGGAGAACTCTCACAGGGCTG--AGTAAATTGCTTAGTTCTGCCG	130777	
QY	249	CTTCTTTCCCTCTGCTTCATGTGTACTACAAAATGATGCAATGCAATGGTGAGGCC	308	
Db	130778	CTTCGTTCCCTCTGCTTCATAGGTACTACAAAATAGTTGTGCCACAGTGGTGAGGCC	130837	
QY	309	CGCAATTAGGGAAGAAAGCTCTCGAAGCCCACTTTGGCATCTCTACACTGGTCAGGTC	368	
Db	130838	CGCAGTGAGTGAAGAAACAAGTTCTTGGAGTTCAAGTGTGCTCTTGGCATGGTCCATGTC	130897	
QY	369	CTTCATTATTTTGTCCACAGCGCAGAGGCTCTTTTGTATTTTCCAAAAATCCAGGGAATC	428	
Db	130898	CTTCATTGTATTATGTCGACGACGAGGCTCTTTTGTATTTTCCAAAAATCCAGGGAATC	130957	
QY	429	CTTTTCCATGATGACTCTCAGGTCTCTCTTTGTTAAAGTAGCTTTATCCCCAGCAATTT	488	
Db	130958	CTTTTCCATGATGACTCTCAGGCCCTCTCTCATTAAGTAGCTTTATCCCCGCAATCT	131017	
QY	489	GTGAANTGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGTCATTTTGGTGTG	548	
Db	131018	GTGAACCGTAAACAAACGCGTTTCATGGTGTGTTCATTTGGACCTGGGGTGTTCGTGAG	131077	
QY	549	GTCGTTTGAAGCCTTTGGC--CGAGGCCCGCGGACGCTGGCGAGCTGGGCGAGCTGGA	605	
Db	131078	ATCTGTTGAACCTTTGGCTGAGGTCCTTTGGCGGCTTGGCAAGCTGGGCTCAGGCC	131137	
QY	606	CGCGGGCGGAGAG 619		
Db	131138	CCCTCGGAAGGAG 131151		
RESULT 36				
CQ711784/c		330 bp	DNA	linear
LOCUS	CQ711784	Sequence 56710 from Patent WO2070737.		PAT 03-FEB-2004
DEFINITION				
ACCESSION	CQ711784			
VERSION	CQ711784.1	GI:42272641		
KEYWORDS				
SOURCE				
ORGANISM				
	Homo sapiens (human)			
	Homo sapiens			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
REFERENCE				
AUTHORS	Liew,C.C., Marshall,W.E. and Zhang,H.			
TITLE	Compositions and methods relating to osteoarthritis			
JOURNAL	Patent: WO 02070737-A 56710 12-SEP-2002;			
	Chondrogene Inc. (CA)			
FEATURES				
	Location/Qualifiers			
source	1..330			
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	/mol_type="unassigned DNA"			
	/db_xref="taxon:9606"			
ORIGIN				

QY	7	AAAAAGAACTTTATTATTGAGGCAAGGGATGCAAAACAATACAAAAATCAAAAGCTT	66		
Db	569	AAAAAAGACTTTCTTTATTGAGGCAACCGATGCAAAACAATATAAACTCGAAAGCTC	510		
QY	67	ATCTGGTAT----TTAACTTTTCTTCTGCTTGTCAAAATGAGAGTTAGATTTTATTTT	122		
Db	509	CTCTGTCATTGGATTAACTTTTCTTCTGCTTGTGCGAATTGGAGTTGGATGTTATTG	450		
QY	123	TACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGGC	182		
Db	449	CACATTTCTTAAGGGTCTCTGATCTGCTCA-----CAGGAAGCAGTGGGC	405		
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QY	243	TGCCTACTTCTTTCCCTTCTGCTTCTGCTTCACTACTACAAAATAGTCAATGCAATGGT	302		
Db	348	CCAGTTGGCCTACTTCTTCTGCTTCTGCTTCACTACTACAAAATAGTCAATGCAATGAT	289		
QY	303	GAGGCCCGCAATTAGGAAAAAGAGCTCTGGAAGCCCACTTTGGCATTCTCTACACTGGTC	362		
Db	288	GAGCCCGGCCACTAGTAGAAGCTCTGGAAGCCCACTTTTCCATCTCGGCACTGGTC	229		
QY	363	CAGGTCTCTTCAATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCAGG	422		
Db	228	CAGGTCTTTTCATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCAGG	169		
QY	423	GAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTAAAGTACGCTTTATCCCCAGC	482		
Db	168	GAACTCCCTTTCCATGAGCACTCTCAGGTCTCTCTTTGTCAAGTAGTCTTTTCCCTGTC	109		
QY	483	GAATTTGTGAATGTAAACATCATGTTTCCATGGCGTGTCCATTTGAGATGGCATTTT	542		
Db	108	AAACCTGTGAATGTAAAGCATCATGTTTCCATGGCATGCTCCATTTGGGATGGCATTTT	49		
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RESULT 39					
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LOCUS	AR473726	600 bp	DNA linear PAT 20-FEB-2004		
DEFINITION	Sequence 64 from patent US 6689581.				
ACCESSION	AR473726				
VERSION	AR473726.1	GI:42712140			
KEYWORDS	Unknown.				
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 600)				
AUTHORS	Rhodes,K., Betty,M., Ling,H.-P. and An,W.				
TITLE	Potassium channel interactors and uses therefor				
JOURNAL	Patent: US 6689581-A 64 10-FEB-2004;				
FEATURES	Location/Qualifiers				
source	1..600				
/organism="unknown"					
/mol_type="genomic DNA"					
ORIGIN					
Query Match	27.5%;	Score 329.8;	DB 6; Length 600;		
Best Local Similarity	77.8%;	Pred No. 8e-60;			
Matches	458;	Conservative 0;	Mismatches 107; Indels 24; Gaps 4;		
QY	7	AAAAAAGAACTTTATTATTGAGGCAAGGGATGCAAAACAATACAAAAATCAAAAGCTT	66		
Db	569	AAAAAAGACTTTCTTTATTGAGGCAACCGGATGCAAAACAATATAAACTCGAAAGCTC	510		
QY	67	ATCTGGTAT----TTAACTTTTCTTCTGCTTGTCAAAATGAGAGTTAGATTTTATTTT	122		
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QY	123	TACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGGC	182		
Db	449	CACATTTCTTAAGGGTCTCTGATCTGCTCA-----CAGGAAGCAGTGGGC	405		
QY	183	AGATTCCTTTAAGGACCCCTTTGGGCAAACTCTTTATCAGGAGGAGCGAACTGCTCATTTTC	242		
Db	404	AGATTCCTCAGTTGACCCCATGGGAGAGGACGATCAAGGTGTGGGTACGAGGC-----T	349		
QY	243	TGCCTACTTCTTTCCCTTCTGCTTCTGCTTCACTACTACAAAATAGTCAATGCAATGGT	302		
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QY	363	CAGGTCTCTTCAATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCAGG	422		
Db	228	CAGGTCTTTTCATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCAGG	169		
QY	423	GAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTAAAGTACGCTTTATCCCCAGC	482		
Db	168	GAACTCCCTTTCCATGAGCACTCTCAGGTCTCTCTTTGTCAAGTAGTCTTTTCCCTGTC	109		
QY	483	GAATTTGTGAATGTAAACATCATGTTTCCATGGCGTGTCCATTTGAGATGGCATTTT	542		
Db	108	AAACCTGTGAATGTAAAGCATCATGTTTCCATGGCATGCTCCATTTGGGATGGCATTTT	49		
QY	543	GGTGTGTCGCTTGAAGCCTTTGGCCGAGCGCGCGGACGCTGGGCGAG	591		
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RESULT 38					
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LOCUS	AR202142	600 bp	DNA linear PAT 20-APR-2002		
DEFINITION	Sequence 64 from patent US 6361971.				
ACCESSION	AR202142				
VERSION	AR202142.1	GI:20256681			
KEYWORDS	Unknown.				
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 600)				
AUTHORS	Rhodes,K., Betty,M., Ling,H.-P. and An,W.				
TITLE	Nucleic acid molecules encoding potassium channel interactors and uses therefor				
JOURNAL	Patent: US 6361971-A 64 26-MAR-2002;				
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source	1..600				
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/mol_type="unassigned DNA"					
ORIGIN					
Query Match	27.5%;	Score 329.8;	DB 6; Length 600;		
Best Local Similarity	77.8%;	Pred. No. 8e-60;			
Matches	458;	Conservative 0;	Mismatches 107; Indels 24; Gaps 4;		
QY	7	AAAAAAGAACTTTATTATTGAGGCAAGGGATGCAAAACAATACAAAAATCAAAAGCTT	66		
Db	569	AAAAAAGACTTTCTTTATTGAGGCAACCGGATGCAAAACAATATAAACTCGAAAGCTC	510		
QY	67	ATCTGGTAT----TTAACTTTTCTTCTGCTTGTGCGAATTGGAGTTAGATTTTATTTT	122		


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563 AAAAAAGACTTTCTTTATTTAGGGCAACCGATGCAAAACAATATAAAATCGAAAGCTC 504
Qy |||||
67 ATCTGGTAT---TTAACTTTTCTTTCTCTGCTTGTCAATAGAGTTAGATTTTATTTT 122
Db |||||
503 CTCTGTCAATGGATTAACATTTTCTTTCTCTGCTTGTCAATTTGGAGTTGATGTTATTTG 444
Qy |||||
123 TACATTTTCTAAGAGTCTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGGC 182
Db |||||
443 CACATTTTCTAAGAGTCTCTGATCTGCTCA-----CAGAAAGCAGTGGGC 399
Qy |||||
183 AGATTTCTTAAGCACTTTTGGACAACCTTTATACAGGGAGGAGCAATGCTCATTTTC 242
Db |||||
398 AGATTTCTCTAGTTGACCCCATGGGAGAGCGCATCAAGGTGTGGGTACCAAGGCT---T 343
Qy |||||
243 TGCCTACTTTCTTTCCCTTCTCTGCTTCTCATGAAATCCTTCTATGGGGGAAGCTGTGGGC 302
Db |||||
342 CCAGTTGGCCCTACTTTCTCTGCTTCTCATGTGCTACTACAAATAGTCAATGCAATGAT 283
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Qy |||||
423 GAATCTCTTTTCCATGAGTACTCTCAGTCTCTCTCTTGTGATTTTAAAGTGGCATTTT 542
Db |||||
162 GAATCTCTTTTCCATGAGTACTCTCAGTCTCTCTCTTGTGATTTTAAAGTGGCATTTT 103
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483 GAATTTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATTTT 542
Db |||||
102 AAACCTGTGAATGTAAGCATCATGTTTCCATGGCATGCTCCATTTGGGATGGCATTTT 43
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543 GGTGTGCTGCTTGAAGCTTTGGCGGAGCGGCGGCGGACGCT 584
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RESULT 44
AR489208/c
LOCUS AR489208 570 bp DNA linear PAT 15-MAY-2004
DEFINITION Sequence 23 from patent US 6709855.
ACCESSION AR489208
VERSION AR489208.1 GI:47256153
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 570)
AUTHORS Stanton,L.W., White,R.T., Damm,D.L., Lewicki,J.A., Joly,A. and Schreiner,G.F.
TITLE Methods for detection and use of differentially expressed genes in disease states
JOURNAL Patent: US 6709855-A 23 23-MAR-2004;
FEATURES Location/Qualifiers
source 1..570
/mol_type="genomic DNA"

ORIGIN
Query Match 27.4%; Score 328.4; DB 6; Length 570;
Best Local Similarity 78.4%; Pred. No. 1.6e-59;
Matches 453; Conservative 0; Mismatches 101; Indels 24; Gaps 4;

Qy 7 AAAAAAGAACTTTATTTAGGGCAAGGGATGCAAAACAATACAAAAATCAAAAGCTT 66
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Qy |||||
67 ATCTGGTAT---TTAACTTTTCTTTCTCTGCTTGTCAATAGAGTTAGATTTTATTTT 122
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Qy |||||
123 TACATTTTCTAAGAGTCTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGGC 182
Db |||||
441 CACATTTTCTAAGAGTCTCTGATCTGCTCA-----CAGAAAGCAGTGGGC 397
Qy |||||
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Db |||||
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Qy |||||
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Db |||||
340 CCAGTTGGCCCTACTTTCTTCTGCTTCTCATGTGCTACTACAAATAGTCAATGCAATGAT 281
Qy |||||
303 GAGCCCGCCCAATTAAGGAAAGAAAGCTCTGGAAGCCCACTTTTGGCATCTCTACACTGGTC 362
Db |||||
280 GAGCCCGCCCACTAGTATAGAAAGCTCTGGAAGCCCACTTTTCCATCTCGGCACCTGGTC 221
Qy |||||
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Db |||||
220 CAGTCTCTCATTTATTTGTCCACAGCCAGAGGCTCTTTTGTGATTTTCCAAAAATCCAGG 161
Qy |||||
423 GAATCTCTTTTCCATGAGTACTCTCAGTCTCTCTCTTGTGATTTTAAAGTGGCATTTT 482
Db |||||
160 GAATCTCTTTTCCATGAGTACTCTCAGTCTCTCTCTTGTGATTTTAAAGTGGCATTTT 101
Qy |||||
483 GAATTTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATTTT 542
Db |||||
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Qy |||||
543 GGTGTGCTGCTTGAAGCTTTGGCGGAGCGGCGGCGGA 580
Db |||||
40 GAAG-AATCTGTTGAAACCTGGGCGCTGAGGCGCTGCA 4

RESULT 45
AX260435/c
LOCUS AX260435 318 bp DNA linear PAT 26-OCT-2001
DEFINITION Sequence 86 from Patent WO0173027.
ACCESSION AX260435
VERSION AX260435.1 GI:16509402
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1 Meagher,M.J., Xu,J. and King,G.B.
AUTHORS Compositions and methods for therapy and diagnosis of colon cancer
TITLE Patent: WO 0173027-A 86 04-OCT-2001;
JOURNAL CORIXA CORPORATION (US)
FEATURES Location/Qualifiers
source 1..318
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Best Local Similarity 100.0%; Pred. No. 4e-57;
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db |||||
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95 TTGTCAAAATGAGAGTTAGATTTTATTTTACATTTGCTGAAGTGTCTGTGATCTGCTCATGA 154
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257 TTGTCAAAATGAGAGTTAGATTTTATTTTACATTTGCTGAAGTGTCTGTGATCTGCTCATGA 198
Qy |||||
155 AATCTCTTCTATGGGGAAGCTGTGGGCGAGATTTCTTTAAAGGACCTTTTGGGCAACTCT 214
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Db	197	AATCCTTCTATGGGGGAAGCTGTGGGCAGATTCTTAAGCGACCCCTTTGGGACAACTCT	138
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Db	137	TATCAGGGAGGAGCGAACTGCTCATTTTCTGCTACTTCTTTCCCTTCTGCTTCATGTGTA	78
Qy	275	CTACAAATAGTCATTGTCATGCAATGGTGAGGCCCGCAATTAGGGAAAAGAGCTCTGGA	334
Db	77	CTACAAATAGTCATTGTCATGCAATGGTGAGGCCCGCAATTAGGGAAAAGAGCTCTGGA	18
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Search completed: August 18, 2005, 05:26:07
Job time : 5219 secs

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OM nucleic - nucleic search, using sw model

Run on: August 17, 2005, 22:29:32 ; Search time 668 Seconds
(without alignments)

10625.404 Million cell updates/sec

Title: US-10-735-577-16

Perfect score: 1199

Sequence: 1 ggaactaaaaagaacttta.....cgggcttcgcgccccaccgg 1199

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_16Desc04.*
1: Geneseqn1980s.*
2: Geneseqn1990s.*
3: Geneseqn2000s.*
4: Geneseqn2001as.*
5: Geneseqn2001bs.*
6: Geneseqn2002as.*
7: Geneseqn2002bs.*
8: Geneseqn2003as.*
9: Geneseqn2003bs.*
10: Geneseqn2003cs.*
11: Geneseqn2003ds.*
12: Geneseqn2004as.*
13: Geneseqn2004bs.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1199	100.0	1199	12	ADP67435 Human p11
c 2	1199	100.0	1199	12	ADP67436 Human p11
c 3	1199	100.0	1199	12	ADQ84359 Human tum
c 4	1199	100.0	1199	13	ACN37451 Tumour-as
c 5	703.4	58.7	1124	8	ABX63001 Human CDN
c 6	634	52.9	1893	3	AACT78192 Human can
c 7	634	52.9	1893	4	AACT75079 Human col
c 8	601	50.1	649	3	AAA46679 cDNA of a
c 9	601	50.1	649	6	ABN95852 Gene #235
c 10	601	50.1	649	10	ADD18599 Human dis
c 11	601	50.1	649	10	ADP81436 Leukaemia
c 12	601	50.1	649	10	ABX13104 Human CDN
c 13	601	50.1	649	13	ADR24986 Breast ca
c 14	601	50.1	649	13	ADP54125 Human PRO
c 15	601	50.1	649	13	ADSI7592 Nucleotid
c 16	595.8	49.7	663	6	ABQ55234 Human ova
c 17	557	46.5	579	3	AAA46667 cDNA of a
c 18	537	44.8	571	6	ABK45339 cDNA enco
c 19	523	43.6	582	3	AACT10823 Human sec
c 20	516.8	43.1	530	10	ADK11670 Breast ca

c 21	485.2	40.5	2016	8	ACC51060	Acc51060 Human S-1
c 22	429.4	35.8	477	9	ACH34296	Ach34296 Human end
c 23	423	35.3	434	10	ADF79487	Adf79487 Leukaemia
c 24	422	35.2	466	9	ACH25344	Ach25344 Human adu
c 25	411	34.3	441	4	AACT75092	Aaf75092 Human col
c 26	396.2	33.0	632	4	AAH53326	Aah53326 Human col
c 27	347.4	29.0	350	10	ADK11672	Adk11672 Breast ca
c 28	343.6	28.7	600	6	ABI99809	Abi99809 Mouse isc
c 29	339.4	28.3	341	10	ADK11671	Adk11671 Breast ca
c 30	329.8	27.5	600	3	AAA46561	Aaa46561 cDNA sequ
c 31	329.8	27.5	600	6	ABK72684	Abk72684 DNA encod
c 32	329.2	27.5	573	6	ABK63467	Abk63467 Rat sequ
c 33	329.2	27.5	573	10	ADB58585	Adb58585 Toxicity-
c 34	329.2	27.5	573	10	ADB53216	Adb53216 Primary r
c 35	329.2	27.5	573	10	ABT42181	Abt42181 Toxicity
c 36	329.2	27.5	573	10	ABX13102	Abx13102 Rat cDNA
c 37	329.2	27.5	573	12	ADP72563	Adp72563 Renal tox
c 38	317	26.4	318	4	AA557410	Aa557410 cDNA #86
c 39	294	24.5	294	3	AAAC81810	Aac81810 Human S10
c 40	291	24.3	291	9	ADA08452	Ada08452 Mammalian
c 41	291	24.3	291	9	ADA08453	Ada08453 Mammalian
c 42	291	24.3	291	12	ADP67424	Adp67424 Human p11
c 43	291	24.3	291	12	ADP67425	Adp67425 Human p11
c 44	273.8	22.8	464	4	AAI10124	Aai10124 Probe #57
c 45	273.8	22.8	464	4	ABA51754	Ab51754 Human foe

ALIGNMENTS

RESULT 1

ADP67435

ID ADP67435 standard; cDNA; 1199 BP.

AC ADP67435;

XX 23-SEP-2004 (first entry)

DE Human p11 antisense polynucleotide SEQ ID NO:16.

XX p11; p11 activity modulator; plasmidogen activation; cytostatic;

KW antisense therapy; cancer; tumour; tumour growth inhibition; human;

KW antisense; gene; ds.

XX Homo sapiens.

OS WO2004054517-A2.

PN 01-JUL-2004.

XX 12-DEC-2003; 2003WO-US040029.

PF 13-DEC-2002; 2002US-0433140P.

XX (MEDI-) MEDIMONICS LLC.

PA (WAIS/) WAISMAN D.

XX Waisman D;

XX WPI; 2004-487995/46.

XX Composition useful for inhibiting growth of tumor in patient, modulates

PT activity of p11 protein and effects change in level of plasminogen

PT activation by a cell.

XX Claim 5; SEQ ID NO 16; 140pp; English.

XX The present invention describes a composition (I) which modulates the

CC activity of a p11 protein and effects a change in the level of

CC plasminogen activation by a cell. Also described: (1) making (M1) a

CC clonal cell line, which involves isolating a cell, then characterising

CC the activity of a protein produced by the cell or clonal progeny of a

CC cell, where the protein is involved in plasminogen activation; and (2) a

CC plasminogen activation by a cell. Also described: (1) making (M1) a
CC clonal cell line, which involves isolating a cell, then characterising
CC the activity of a protein produced by the cell or clonal progeny of the
CC cell, where the protein is involved in plasminogen activation; and (2) a
CC clonal cell line (II) useful in the identification of composition that
CC modulate p11 activity, where the clonal cell line is obtained by (M1).
CC (I) has cytostatic activity, and can be used in antisense therapy. (I) is
CC useful for modulating the activity of p11 which involves administering
CC (I) to a cell. The cell can be a human cancer cell, chosen from a HT1080
CC fibrosarcoma cell, a LNCaP prostate cancer cell, and a CCL-22 colorectal
CC adenocarcinoma cell. (I) is also useful for reducing the development of
CC cancer in a patient e.g., mouse which involves administering (I) to a
CC cancer cell in the patient. (I) is useful for inhibiting the growth of
CC tumours or inhibiting tumour cell invasion in a patient, which involves
CC administering (I) to a cancer cell in the patient. (II) is useful for
CC identifying a composition that modulates p11 activity which involves
CC administering the composition to (II) obtained by (M1), determining the
CC change in p11 activity of a cell of the clonal cell line relative to a
CC cell of a clonal cell line that had not received the composition, and
CC identifying the composition that produces a change in p11 activity. The
CC change in p11 activity is a change in the level of plasminogen activation
CC activity. The present sequence represents a p11 sense polynucleotide,
CC which is used in the exemplification of the present invention.
XX
SQ Sequence 1199 BP; 289 A; 337 C; 338 G; 235 T; 0 U; 0 Other;

Query Match 100.0%; Score 1199; DB 12; Length 1199;
Best Local Similarity 100.0%; Pred. No. 3.3e-293;
Matches 1199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACCTAAAAGAACTTTATTTATGAGGCAAGGGATGCAAAACATCAAAATCAA 60
Db 1199 GGAACCTAAAAGAACTTTATTTATGAGGCAAGGGATGCAAAACATCAAAATCAA 1140

Qy 61 AAGCTTATCTGGTATTTAACTTTCTTCTCTGCTGTGCAATCAGAGTTAGATTTATT 120
Db 1139 AAGCTTATCTGGTATTTAACTTTCTTCTCTGCTGTGCAATCAGAGTTAGATTTATT 1080

Qy 121 TTTACATTTGCTAAGTGTCTGTATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGG 180
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Qy 181 GCAGATTCCTTTAAGCGACCTTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 240
Db 1019 GCAGATTCCTTTAAGCGACCTTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 960

Qy 241 TCTGCTACTTCTTCTCTCTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
Db 959 TCTGCTACTTCTTCTCTCTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900

Qy 301 GTGAGGCGCGCAATTAGGGAAGAAAGCTCTGGAAGCGCCACTTTGGCCATCTCTACACTGG 360
Db 899 GTGAGGCGCGCAATTAGGGAAGAAAGCTCTGGAAGCGCCACTTTGGCCATCTCTACACTGG 840

Qy 361 TCCAGGTCCTTCATTTATTTGTCACAGCAGAGGGTCTTTTGAATTTCCAAATATCCA 420
Db 839 TCCAGGTCCTTCATTTATTTGTCACAGCAGAGGGTCTTTTGAATTTCCAAATATCCA 780

Qy 421 GGGAACTCTTTTCCATGAGTACTCTCAGGTCCTCTTGTGTAAGTAGCCCTTTATCCCCA 480
Db 779 GGGAACTCTTTTCCATGAGTACTCTCAGGTCCTCTTGTGTAAGTAGCCCTTTATCCCCA 720

Qy 481 GCGAATTTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCAT 540
Db 719 GCGAATTTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCAT 660

Qy 541 TTGTTGTGTCCTGTTGAAGCCCTTGGCCAGCGCGCGGAGCGCTGGGCGAGCTGGGCGAG 600
Db 659 TTGTTGTGTCCTGTTGAAGCCCTTGGCCAGCGCGCGGAGCGCTGGGCGAGCTGGGCGAG 600

Qy 601 CTGACCGCGGCGGAGGCGGCGGCGGCTGTGCGCTTCTTCTAGTACGTGCGGC 660
Db 599 CTGACCGCGGCGGAGGCGGCGGCGGCTGTGCGCTTCTTCTAGTACGTGCGGC 540

Qy 661 GGGTGGGTAGAGGAGCGCGCGGGAGCGGGAGCGGAGGAGCCTGGCGGGGCGCTCGGCAGGGCG 720
Db 539 GGGTGGGTAGAGGAGCGCGCGGGAGCGGGAGCGGGAGGAGCCTGGCGGGGCGCTCGGCAGGGCG 480

Qy 721 CTGCCCAGCCCTGTCTCTCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 780
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Qy 781 CGGCCCACCGCCT 840
Db 419 CGGCCCACCGCCT 360

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Db 359 AGAGCGTCTTTGTAACCTTCT 300

Qy 901 ATCCCAACCTCTGAGCCT 960
Db 299 ATCCCAACCTCTGAGCCT 240

Qy 961 GAAACCCCGGCGCT 1020
Db 239 GAAACCCCGGCGCT 180

Qy 1021 GGCCACCTACGGTCTTAGGAAATTAATTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1080
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Db 119 TCTATGACCTCAGAGGCACTATCAGATTAGCCCTTAGGAGTCTCTCTCTCTCTCTCTCTCTCT 60

Qy 1141 CGGCTGCGGCGAGTGGAGGGCGGCGACCTCCCGAGAGCGGGCTTCCCGCCCGCCACCGG 1199
Db 59 CGGCTGCGGCGAGTGGAGGGCGGCGACCTCCCGAGAGCGGGCTTCCCGCCCGCCACCGG 1

RESULT 3
ADQ84359/c
ID ADQ84359 standard; cDNA; 1199 BP.
XX ADQ84359;
AC XX
DT 07-OCT-2004 (first entry)
XX Human tumour-associated antigenic target (TAT) cDNA sequence #1173.
DE human; tumour-associated antigenic target; TAT; cytostatic; gene therapy;
XX cancer; cell proliferative disorder; gene; ss.
OS Homo sapiens.
XX
XX WO2004060270-A2.
XX 22-JUL-2004.
XX 15-OCT-2003; 2003WO-US029126.
XX 18-OCT-2002; 2002US-0418988P.
XX (GETH) GENENTECH INC.
PA (WUTD/) WU T D.
PA (ZHOU/) ZHOU Y.
XX
XX Wu TD, Zhou Y;
XX WPI; 2004-534300/51.
XX
XX New nucleic acid molecule and encoded polypeptide, for diagnosing,
XX preventing or treating cell proliferative disorders such as cancer.
PS Claim 1; SEQ ID NO 1173; 5504pp; English.

The present invention describes an isolated tumour-associated antigenic target (TAT) nucleic acid comprising: (a) any of 4622 nucleotide sequences (see SEQ ID NO:1 to 4622); (b) the full-length coding region of (a); (c) the complement of (a) or (b); (d) a sequence that has 80% sequence identity to (a)-(c); or (e) a sequence that hybridises to (a)-(c). Also described: (1) an expression vector comprising the above nucleic acid; (2) a host cell comprising the above expression vector; (3) a process for producing a polypeptide; (4) an isolated polypeptide comprising: (a) an amino acid sequence encoded by any of the above nucleotide sequences; (b) an amino acid sequence encoded by the full-length coding region of the above nucleotide sequences; or (c) a sequence having at least 80% identical to (a) or (b); (5) a chimeric polypeptide comprising the above polypeptide fused to a heterologous polypeptide; (6) an isolated antibody that binds to the above polypeptide; (7) a process for producing the antibody; (8) an isolated oligopeptide that binds to the above polypeptide; (9) a tumour-associated antigenic target (TAT) binding organic molecule that binds to the above polypeptide; (10) a composition of matter comprising the above (chimeric) polypeptide, antibody, oligopeptide or TAT binding organic molecule, in combination with a carrier; (11) an article of manufacture comprising a container and the composition of matter contained within the container; (12) methods of inhibiting the growth of a cell that expresses the above protein, where the growth of the cell is at least in part dependent upon a growth potentiating effect of the above protein; (13) a method of therapeutically treating a mammal having a cancerous tumour comprising cells that express the above protein; (14) a method of determining the presence of a protein in a sample suspected of containing the protein described above; (15) methods of diagnosing the presence of a tumour in a mammal; (16) a method for treating or preventing a cell proliferative disorder associated with increased expression or activity of the above protein; and (17) a method of binding an antibody, oligopeptide or organic molecule to a cell that expresses the protein described above. The TAT sequences have cytostatic activities, and can be used in gene therapy. The composition and methods are useful for diagnosing, preventing or treating cancer. The composition is also used for preparing a medicament for the therapeutic treatment or diagnostic detection of a cell proliferative disorder or cancer. The present sequence represents a human TAT cDNA sequence from the present invention.

Sequence 1199 BP; 289 A; 337 C; 338 G; 235 T; 0 U; 0 Other;

Query Match	100.0%;	Score 1199;	DB 12;	Length 1199;
Best Local Similarity	100.0%;	Pred. No. 3.3e-293;		
Matches 1199;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	1	GGAACTAAAAAGAACTTTATTTATTTAGGGCGAAGGGGATGCAACAATACAAAAATCAA	60
Db	1199	GGAACTAAAAAGAACTTTATTTATTTAGGGCGAAGGGGATGCAACAATACAAAAATCAA	114
Qy	61	AAGCTTATCTGGTATTTAACTTTTCTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATT	120
Db	1139	AAGCTTATCTGGTATTTAACTTTTCTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATT	108
Qy	121	TTTACATTTGCTAAAGTCTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGG	180
Db	1079	TTTACATTTGCTAAAGTCTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGG	102
Qy	181	GCAGATTCCTTAAAGCAGCCCTTTGGGACAACTCTTATACAGGAGGAGCGAACTGCTCAT	240
Db	1019	GCAGATTCCTTAAAGCAGCCCTTTGGGACAACTCTTATACAGGAGGAGCGAACTGCTCAT	960
Qy	241	TCTGCGCTTACTCTTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATTCGATGCAATG	300
Db	959	TCTGCGCTTACTCTTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATTCGATGCAATG	900
Qy	301	GTGAGGCCCGCAATTAGGGAAGAAAGCTCTGGGAAGCCCATTTTGCCATCTCTACACTGG	360
Db	899	GTGAGGCCCGCAATTAGGGAAGAAAGCTCTGGGAAGCCCATTTTGCCATCTCTACACTGG	840
Qy	361	TCCAGGTCCTTCATTATTTTGTCCACAGCCAGAGGTCCTTTTGATTTTCCAAAAATCCA	420
Db	839	TCCAGGTCCTTCATTATTTTGTCCACAGCCAGAGGTCCTTTTGATTTTCCAAAAATCCA	780

RESULT 4
ACN37451
ID ACN

AC ACN37451:

DT 18-NOV-2004 (first entry)

XX
DE Tumour-associated antigenic target (TAT) cDNA DNA323900. SEO ID NO:342.

Tumour-associated antigenic target; TAT; human; overexpression; cancer;
 tumour; diagnosis; cell proliferative disorder; breast cancer;
 colorectal cancer; lung cancer; ovarian cancer; liver cancer;
 central nervous system cancer; bladder cancer; pancreatic cancer;
 cervical cancer; melanoma; leukaemia; hybridisation probe;
 chromosome identification; chromosome mapping; gene mapping;
 gene therapy; cytostatic; gene; ss.

Homo sapiens.

50
xx

XX WO2004030615-A2.
 XX 15-APR-2004.
 XX 29-SEP-2003; 2003WO-US028547.
 XX 02-OCT-2002; 2002US-0414971P.
 XX (GETH) GENENTECH INC.
 XX Wu TD, Zhang Z, Zhou Y;
 XX WPI; 2004-347921/32.
 XX P-PSDB; ABM80135.
 XX New tumor-associated antigenic target polypeptides and nucleic acids,
 XX useful in preparing a medicament for treating or detecting a
 XX proliferative disorder, e.g. breast, lung, colorectal, ovarian or
 XX prostate cancer or tumor.
 XX Claim 1; SEQ ID NO 342; 7273pp; English.
 XX The invention relates to human tumour-associated antigenic target (TAT)
 XX polypeptides, and their related nucleic acids. The TAT polypeptides are
 XX overexpressed in cancer tissues compared to normal tissues, and may thus
 XX serve as effective targets for the diagnosis and treatment of cancer in
 XX mammals. The invention also relates to nucleic acid and polypeptide
 XX sequences at least 80% identical to the TAT nucleic acids and
 XX polypeptides; expression vectors and host cells comprising a TAT nucleic
 XX acid; an antibody specific for a TAT polypeptide; a peptide or organic
 XX molecule which binds to a TAT polypeptide; fusion proteins comprising a
 XX TAT polypeptide; and methods and compositions for the treatment or
 XX diagnosis of cancer in mammals. TAT polypeptides, nucleic acids,
 XX antibodies, antagonists, binding molecules and compositions are useful
 XX for diagnosing or treating a cell proliferative disorder associated with
 XX increased TAT expression, particularly cancers such as breast cancer,
 XX colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder
 XX cancer, pancreatic cancer, cervical cancer, cancers of the central
 XX nervous system, melanoma and leukaemia. TAT nucleic acids may further be
 XX used as hybridisation probes, in chromosome and gene mapping, in
 XX chromosome identification and in gene therapy. The present sequence
 XX represents a TAT nucleic acid of the invention
 XX
 SQ Sequence 1199 BP; 289 A; 337 C; 338 G; 235 T; 0 U; 0 Other;
 Query Match 100.0%; Score 1199; DB 13; Length 1199;
 Best Local Similarity 100.0%; Pred. No. 3.3e-293;
 Matches 1199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 GGAACTAAAAAGAACTTTTATTATTGAGGCAAGGGATGCAAAACAATACAAAATCAA 60
 Db 1199 GGAACATAAAGAACTTTTATTATTGAGGCAAGGGATGCAAAACAATACAAAATCAA 1140
 Qy 61 AAGCTTATCTGGTATTAACCTTTCTTCTCTGCTGTCAAAATGAGATTTATT 120
 Db 1139 AAGCTTATCTGGTATTAACCTTTCTTCTCTGCTGTCAAAATGAGATTTATT 1080
 Qy 121 TTTTACATTTGCTAGTGTCTGATCTGCTCATGAAATCTTCTATGGGGAAGCTGTGG 180
 Db 1079 TTTTACATTTGCTAGTGTCTGATCTGCTCATGAAATCTTCTATGGGGAAGCTGTGG 1020
 Qy 181 CGAGATTCCTTAAGCGACCCCTTTTGGGACAACTTTATCAGGGAGGAGCACTCTCAT 240
 Db 1019 CGAGATTCCTTAAGCGACCCCTTTTGGGACAACTTTATCAGGGAGGAGCACTCTCAT 960
 Qy 241 TCTGCTACTTCTTCCCTTCTGCTTCAATGATGATCAAAATAGTCAATGCAATG 300
 Db 959 TCTGCTACTTCTTCCCTTCTGCTTCAATGATGATCAAAATAGTCAATGCAATG 900
 Qy 301 GTGAGGCGCCCAATAGGAAAAGAACTCTGGAAGCCCACTTTGCCATCTTACACTGG 360
 Db 899 GTGAGGCGCCCAATAGGAAAAGAACTCTGGAAGCCCACTTTGCCATCTTACACTGG 840

Qy 361 TCCAGGTCTTTCATTATTTTGTCCACAGCAGAGGGTCTTTTGTATTTTCCAAAATCCA 420
 Db 839 TCCAGGTCTTTCATTATTTTGTCCACAGCAGAGGGTCTTTTGTATTTTCCAAAATCCA 780
 Qy 421 GGGAACTCTCTTTTCCATGACTCTCAGGTCTCTCTTCTTAAAGTAGTCTTTATCCCA 480
 Db 779 GGGAACTCTCTTTTCCATGACTCTCAGGTCTCTCTTCTTAAAGTAGTCTTTATCCCA 720
 Qy 481 GCGAATTTGTAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCAT 540
 Db 719 GCGAATTTGTAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCAT 660
 Qy 541 TTGGTGTGTCTCGTTGAAGCCTTTGGCCGAGCGCGGACGCTGGGCGAGCTGGGCGAG 600
 Db 659 TTGGTGTGTCTCGTTGAAGCCTTTGGCCGAGCGCGGACGCTGGGCGAGCTGGGCGAG 600
 Qy 601 CTGACGCGGGGGGAGAGCGGAGCGGCGGCTGTGCGCTTCTTAGTAGTCTGGCGG 660
 Db 599 CTGACGCGGGGGGAGAGCGGAGCGGCGGCTGTGCGCTTCTTAGTAGTCTGGCGG 540
 Qy 661 GGGTGGGTAGAGGAGCGCGGAGCGGAGCGGAGCGCTGGGCGGCTGGGCGAGGCG 720
 Db 539 GGGTGGGTAGAGGAGCGCGGAGCGGAGCGGAGCGCTGGGCGGCTGGGCGAGGCG 480
 Qy 721 CTCCCGCAGCCCTGTCTCTCTCCCTCTTCTGCTGCGGCGGCTCTCCCGGAGCGG 780
 Db 479 CTCCCGCAGCCCTGTCTCTCTCCCTCTTCTGCTGCGGCGGCTCTCCCGGAGCGG 420
 Qy 781 CGGCGCCAGCCCTGCTCTGCGGAGCGGAGCGGCTGGGCGGCTGGGCGGCGGCGAG 840
 Db 419 CGGCGCCAGCCCTGCTCTGCGGAGCGGAGCGGAGCGCTGGGCGGCTGGGCGGCGGAG 360
 Qy 841 AGAGCGTCTTGTAAACCTTCTCTCAGTAGAAACGGTCTCTCGAATATTTTCAGGCG 900
 Db 359 AGAGCGTCTTGTAAACCTTCTCTCAGTAGAAACGGTCTCTCGAATATTTTCAGGCG 300
 Qy 901 ATCCCGCAGCCCTGAGCTGCGCTTCTCTCGGTTTGGTTTGTAGAAAGTGTACAAATCAA 960
 Db 299 ATCCCGCAGCCCTGAGCTGCGCTTCTCTCGGTTTGGTTTGTAGAAAGTGTACAAATCAA 240
 Qy 961 GAACCGGCGGCTCTGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 1020
 Db 239 GAACCGGCGGCTCTGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 180
 Qy 1021 GGCACCTACGGTCTAGGAATTTACTTGTGATGACCTTGCAGGAGTGGCAGCTGGAG 1080
 Db 179 GGCACCTACGGTCTAGGAATTTACTTGTGATGACCTTGCAGGAGTGGCAGCTGGAG 120
 Qy 1081 TCCTATCGACCTCAGAGGCACTATCAGATTAGCCCTAGGAGGTCGGTCTGGGGTCTCGG 1140
 Db 119 TCCTATCGACCTCAGAGGCACTATCAGATTAGCCCTAGGAGGTCGGTCTGGGGTCTCGG 60
 Qy 1141 CGGCTCTGCGCAGTGGAGGGGCGGAGCTTCCCGAGAAAGCGGGCTTCCCGCCCGCCAG 1199
 Db 59 CGGCTCTGCGCAGTGGAGGGGCGGAGCTTCCCGAGAAAGCGGGCTTCCCGCCCGCCAG 1
 RESULT 5
 ABX63001/c
 ID ABX63001 standard; cDNA; 1124 BP.
 XX
 AC ABX63001;
 XX
 DT 25-FEB-2003 (first entry)
 XX
 DE Human cDNA #1 differentially expressed in activated vascular tissue.
 XX
 KW Human; gene; ss; vascular tissue; cytostatic; atherosclerosis; cardiant;
 KW hypotensive; antidiabetic; gynaecological; vasotropic; cerebroprotective;
 KW gene therapy; vascular disease; cancer; coronary; artery disease;
 KW hypertension; diabetes; pre-eclampsia; restenosis;
 KW ischaemia-reperfusion injury; stroke.

Qy 421 GGGAACTCCTTTTCCATGAGTACTCTCAGTCCCTCTTGTAAAGTAGCCCTTTATCCCA 480
Db 230 GGGAACTCCTTTTCCATGAGTACTCTCAGTCCCTCTTGTAAAGTAGCCCTTTATCCCA 171
Qy 481 GCGAATTTGGAATGTAACATCATGTTTCCATGCGGTTCCTTCCATTTGAGATGGCATT 540
Db 170 GCGAATTTGGAATGTAACATCATGTTTCCATGCGGTTCCTTCCATTTGAGATGGCATT 111
Qy 541 TTGCTGTGTCGCTTGAAGCCTTGGCCGAGCGCGCGGAGCTGGGCGAGCTGGGCGAG 600
Db 110 TTGCTGTGTCGCTTGAAGCCTTGG- CGAGCGCGCGGAGCTGGGCGAGCTGGGCGAG 52
Qy 601 CTGACGCGCGCGGAGCGGAGCGAGC 625
Db 51 CTGACGCGCGGAGCGGAGCGGAGC 27

RESULT 12
ABX13104/c

ID ABX13104 standard; cDNA; 649 BP.

XX AC

XX ABX13104;

XX 10-MAY-2003 (first entry)

XX Human cDNA encoding small calcium binding protein p11.

DE

XX Human; ss; gene; voltage gated sodium channel; VGSC; Nav1.8; p11;

KW small calcium binding protein; analgesia; chronic pain; osteoarthritis;

KW rheumatoid arthritis; neuropathic pain; cancer pain;

KW tri geminal neuralgia; hyperalgesia; inflammatory pain; nociceptive pain;

KW tabes dorsalis; phantom limb pain; spinal cord injury pain; central pain;

KW post-herpetic pain; HIV pain; non-cardiac chest pain;

KW irritable bowel syndrome; bowel disorder.

XX

XX Homo sapiens.

OS

XX Key

PH Location/Qualifiers

FT CDS

FT 112..405

FT /*tag= a

FT /product= "p11"

XX

XX W02003016917-A2.

XX

XX 27-FEB-2003.

XX

XX 20-AUG-2002; 2002WO-GB003852.

XX

XX 20-AUG-2001; 2001GB-00020238.

XX

XX (UNLO) UNIV COLLEGE LONDON.

XX

XX Okuse K, Baker M, Poon L, Wood JN, Malik-Hall M;

XX

XX WPI; 2003-279589/27.

XX

XX P-PSDB; ABG76194.

XX

XX Identifying a voltage gated sodium channel (VGSC) modulator for producing

XX analgesia and for relieving chronic pain, e.g. osteoarthritis or HIV

XX pain, comprises bringing into contact a VGSC, a p11 peptide and a test

XX compound.

XX

XX Disclosure; Page 102-103; 114pp; English.

XX

XX The invention relates to identifying a modulator of a voltage gated

XX sodium channel (VGSC) e.g. Nav1.8 comprising: (a) bringing into contact a

XX VGSC, a p11 peptide (a small calcium binding protein of the S-100 family)

XX and test compound (tc) so that the VGSC and the p11 peptide can form a

XX complex in the absence of the (tc); and (b) measuring an activity of the

XX VGSC, where a change in the activity of the VGSC relative to the activity

XX in the absence of the (tc) indicates that the (tc) is a modulator of

XX VGSC. Also included are a method of enhancing the functional expression

XX of a VGSC in a cell by increasing the level of p11 in the cell, a

XX

CC compound identified by a method above, a host cell capable of expressing
CC a VGSC and a p11 peptide (where the VGSC and/or peptide 11 is expressed
CC from one or more heterologous expression vectors within the cell),
CC treating a disorder or condition associated with the activity of a
CC voltage gated sodium channel (by administering to an individual a
CC compound identified by the method above, or an inhibitor of p11 activity
CC or expression). The method is useful for identifying modulators of VGSC.
CC Compounds identified as modulator of VGSC are useful for manufacturing a
CC medicament for modulating the functional expression of a voltage gated
CC sodium channel, for producing analgesia and for relieving chronic pain
CC such as osteoarthritis, rheumatoid arthritis, neuropathic pain, cancer
CC pain, tri geminal neuralgia, primary and secondary hyperalgesia,
CC inflammatory pain, nociceptive pain, tabes dorsalis, phantom limb pain,
CC spinal cord injury pain, central pain, post-herpetic pain and HIV pain,
CC non-cardiac chest pain, irritable bowel syndrome and pain associated with
CC bowel disorders. The present sequence encodes human p11
XX

SQ Sequence 649 BP; 197 A; 162 C; 137 G; 153 T; 0 U; 0 Other;

Query Match 50.1%; Score 601; DB 10; Length 649;

Best Local Similarity 99.7%; Pred. No. 7.5e-142;

Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 1 GGAACCTAAAAAGCACTTTATTATTGAGGCGAAGGGATGCAACATACAAAAATCAA 60
Db 649 GGAACCTAAAAAGCACTTTATTATTGAGGCGAAGGGATGCAACATACAAAAATCAA 590
Qy 61 AAGCTTATCTGATGATTTAACTTTCTCTCTGCTCAAAATGAGAGTTAGATTTATT 120
Db 589 AAGCTTATCTGATGATTTAACTTTCTCTCTGCTCAAAATGAGAGTTAGATTTATT 530
Qy 121 TTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCTCTTCTATGGGGAAGCTGGG 180
Db 529 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCTCTTCTATGGGGAAGCTGGG 470
Qy 181 GCAGATCTCTAAGCGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGAAGCTGCTATT 240
Db 469 GCAGATCTCTAAGCGACCCCTTT- GGACAACTCTTATCAGGAGGAGCGAAGCTGCTATT 411
Qy 241 TCTGCTTACTTCTTTCCCTTCTCTCTCATGTGTAACAAATAGTCAATGCAATGCAATG 300
Db 410 TCTGCTTACTTCTTTCCCTTCTCTCTCATGTGTAACAAATAGTCAATGCAATGCAATG 351
Qy 301 GTGAGGCGCGCAATTAGGGAAGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db 350 GTGAGGCGCGCAATTAGGGAAGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 291
Qy 361 TCCAGTCTCTTCAATTTTGTCCAGCAGAGAGGCTCTTTTGTATTTTCCAAAAATCCA 420
Db 290 TCCAGTCTCTTCAATTTTGTCCAGCAGAGAGGCTCTTTTGTATTTTCCAAAAATCCA 231
Qy 421 GGGAACTCCTTTTCCATGAGTACTCTCAGTCTCTCTTTGTTAAAGTAGCCCTTTATCCCA 480
Db 230 GGGAACTCCTTTTCCATGAGTACTCTCAGTCTCTCTTTGTTAAAGTAGCCCTTTATCCCA 171
Qy 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTGTTTCCATTTGAGATGGCATT 540
Db 170 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTGTTTCCATTTGAGATGGCATT 111
Qy 541 TTGGTGTGTCGCTTGAAGCCTTTGGCGGAGCGCGGAGCGCTGGGCGAGCTGGGCGAG 600
Db 110 TTGGTGTGTCGCTTGAAGCCTTTGG- CGAGCGCGCGGAGCGCTGGGCGAGCTGGGCGAG 52
Qy 601 CTGCGCGCGGCGGAGCGGAGCGAGC 625
Db 51 CTGCGCGCGGCGGAGCGGAGCGGAGC 27

RESULT 13

ADR24986/c

ID ADR24986 standard; DNA; 649 BP.

XX

AC ADR24986;

CC mammal; (10) a method for determining the presence of a PRO polypeptide
 CC in a sample suspected of having the polypeptide; (11) a method of
 CC diagnosing an immune related disease or an inflammatory immune response
 CC in mammal; (12) a method of identifying a compound that inhibits or
 CC mimics the activity of or expression of a gene encoding a PRO polypeptide
 CC ; and (13) a method of stimulating the immune response in a mammal. The
 CC PRO sequences have anti-allergic, anti-inflammatory, anti-arthritic,
 CC antiasthmatic, antidiabetic, antinflammatory, antipsoriatic,
 CC haemostatic, hepatotropic, immunostimulant, immunosuppressive, muscular,
 CC nephrotropic, neuroprotective, osteopathic, respiratory, vasotropic and
 CC virucide activities, and can be used in gene therapy. The nucleic acid
 CC (I) and the encoded polypeptides, compositions, kits and methods are
 CC useful in diagnosing and treating an immune related disease and in
 CC stimulating an immune response. The present sequence represents a human
 CC PRO nucleotide sequence from the present invention.

XX SQ Sequence 649 BP; 197 A; 162 C; 137 G; 153 T; 0 U; 0 Other;

Query Match 50.1%; Score 601; DB 13; Length 649;
 Best Local Similarity 99.7%; Pred. No. 7.5e-142;
 Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 1 GGAACATAAAGAACTTTATTTATGAGGCAAGGGATGCAACATACAAATCAA 60
 Db 649 GGAACATAAAGAACTTTATTTATGAGGCAAGGGATGCAACATACAAATCAA 590
 Qy 61 AAGCTTATCTGGTATTAACTTTCTCTCTGCTGTGCAATGAGAGTTAGATTTATT 120
 Db 589 AAGCTTATCTGGTATTAACTTTCTCTCTGCTGTGCAATGAGAGTTAGATTTATT 530
 Qy 121 TTTACATTTGCTAAGTCTCTGCTGCTCATGAAATCCTTCTATGGGGAAGCTGTGG 180
 Db 529 TTTACATTTGCTAAGTCTCTGCTGCTCATGAAATCCTTCTATGGGGAAGCTGTGG 470
 Qy 181 GCAGATTCCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGAAGCTGCTATT 240
 Db 469 GCAGATTCCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGAAGCTGCTATT 411
 Qy 241 TCTGCTACTTCTTCCCTCTGCTTCTATGTTACTACAAATAGTCAATGCAATGCAATG 300
 Db 410 TCTGCTACTTCTTCCCTCTGCTTCTATGTTACTACAAATAGTCAATGCAATGCAATG 351
 Qy 301 GTGAGGCGCCCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
 Db 350 GTGAGGCGCCCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 291
 Qy 361 TCCAGGTCCTTCATATTTTGTCCACAGCCAGAGGCTTTTTCATTTTCCAAAATCCA 420
 Db 290 TCCAGGTCCTTCATATTTTGTCCACAGCCAGAGGCTTTTTCATTTTCCAAAATCCA 231
 Qy 421 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTAGTAGCCCTTTATCCCA 480
 Db 230 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGTAGTAGCCCTTTATCCCA 171
 Qy 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCATT 540
 Db 170 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCATT 111
 Qy 541 TTGTTGTGTCCTTTGAAGCCCTTGGCGAGCGCGGAGCGCTGGGAGCTGGGCGAG 600
 Db 110 TTGTTGTGTCCTTTGAAGCCCTTGG- CGAGCGCGCGGAGCGCTGGGAGCTGGGCGAG 52
 Qy 601 CTGACGCGCGGCGGAGGCGGAGC 625
 Db 51 CTGACGCGCGGCGGAGGCGGAGC 27

RESULT 15
 ADS17592/c
 ID ADS17592 standard; cDNA; 649 BP.
 XX
 AC ADS17592;

XX 16-DEC-2004 (first entry)
 XX Nucleotide sequence of the p11 subunit of human annexin II.
 DE neurite outgrowth; neuronal cell; annexin II; neurodegeneration;
 XX Alzheimer's disease; Parkinsonian syndrome; brain injury; stroke;
 KW p11 subunit; human; gene; ss.
 XX Homo sapiens.
 XX Key Location/Qualifiers
 PH CDS 112..405
 FT /*tag= a
 FT /product= "p11 subunit of human annexin II"
 XX PN WO2004080424-A2.
 XX PD 23-SEP-2004.
 XX 13-MAR-2004; 2004WO-US007749.
 PF 13-MAR-2003; 2003US-0454254P.
 PR (BGHM) BRIGHAM & WOMENS HOSPITAL INC.
 XX Yeh L, Cuny GD, Padmanaban D, Ding K;
 WIPI; 2004-668882/65.
 DR P-PSDB; ADS17593.
 XX Determining neurite outgrowth in a population of neuronal cells comprises
 PT detecting the amount of annexin II in the population of neuronal cells.
 PS Disclosure; SEQ ID NO 3; 67pp; English.
 XX The specification describes a method for quantitatively determining
 CC neurite outgrowth in a population of neuronal cells. The method comprises
 CC contacting a population of neuronal cells with a detection reagent
 CC capable of detecting annexin II, detecting an amount of annexin II in the
 CC population of neuronal cells, and determining a quantitative amount of
 CC neurite outgrowth in the population of neuronal cells based on the amount
 CC of annexin II. The method is useful for detecting neurite outgrowth and
 CC for screening compounds that modulate neurite outgrowth or that may be
 CC used to prevent or treat diseases and conditions relating to
 CC neurodegeneration, such as Alzheimer's disease, Parkinsonian syndromes,
 CC brain injuries or stroke. The present sequence encodes the p11 subunit of
 CC human annexin II. The p11 nucleotide sequence can be detected using the
 CC method of the invention.
 XX SQ Sequence 649 BP; 197 A; 162 C; 137 G; 153 T; 0 U; 0 Other;
 Query Match 50.1%; Score 601; DB 13; Length 649;
 Best Local Similarity 99.7%; Pred. No. 7.5e-142;
 Matches 623; Conservative 0; Mismatches 0; Indels 2; Gaps 2;
 Qy 1 GGAACATAAAGAACTTTATTTATGAGGCAAGGGATGCAACATACAAATCAA 60
 Db 649 GGAACATAAAGAACTTTATTTATGAGGCAAGGGATGCAACATACAAATCAA 590
 Qy 61 AAGCTTATCTGGTATTAACTTTTCTCTCTGCTGTGCAATGAGAGTTAGATTTATT 120
 Db 589 AAGCTTATCTGGTATTAACTTTTCTCTCTGCTGTGCAATGAGAGTTAGATTTATT 530
 Qy 121 TTTACATTTGCTAAGTCTCTGCTGCTCATGAAATCCTTCTATGGGGAAGCTGTGG 180
 Db 529 TTTACATTTGCTAAGTCTCTGCTGCTCATGAAATCCTTCTATGGGGAAGCTGTGG 470
 Qy 181 GCAGATTCCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGAAGCTGCTATT 240
 Db 469 GCAGATTCCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGAAGCTGCTATT 411
 Qy 241 TCTGCTACTTCTTCCCTCTGCTTCTATGTTACTACAAATAGTCAATGCAATGCAATG 300

Db 410 TCTGCTACTTCTTCCCTTCTGCTTCAATGTGTACTACAAATAGTCAATTTGCAATGCAATG 351
Qy 301 GTGAGGCCCGCAATTAGGGAAGAAGCTCTGGAGCCCACTTTGCCATCTCTACACTGG 360
Db 350 GTGAGGCCCGCAATTAGGGAAGAAGCTCTGGAGCCCACTTTGCCATCTCTACACTGG 291
Qy 361 TCCAGGTCCTTTCATTATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAAATCCA 420
Db 290 TCCAGGTCCTTTCATTATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAAATCCA 231
Qy 421 GGGAACTCTTTTCCATGAGTACTCTCAGGTCCTCTCTTTTGAAGTAAAGTCTTTATCCCCA 480
Db 230 GGGAACTCTTTTCCATGAGTACTCTCAGGTCCTCTCTTTTGAAGTAAAGTCTTTATCCCCA 171
Qy 481 GCGAATTTGTAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAAT 540
Db 170 GCGAATTTGTAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAAT 111
Qy 541 TTGTTGTGTCCTGTTGAAGCTTTGGCCGAGCGCGGCGGAGCTTGGCGGAGCTGGGCGAG 600
Db 110 TTGTTGTGTCCTGTTGAAGCTTTGGCCGAGCGCGGCGGAGCTTGGCGGAGCTGGGCGAG 52
Qy 601 CTGGACGCGGGCGGAGGCGAGC 625
Db 51 CTGGACGCGGGCGGAGGCGAGC 27
RESULT 16
ABO55234/c
ID ABO55234 standard; cDNA; 663 BP.
XX ABO55234;
AC ABO55234;
XX 22-AUG-2002 (first entry)
DT Human ovarian antigen HCOO171 cDNA, SEQ ID NO:1114.
XX Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;
XX Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;
KW ovarian cancer; breast cancer; tumour; reproductive system disorder;
KW infertility; pregnancy disorder; anovulation; polycystic ovary syndrome;
KW PCOS; ovarian cyst; dysmenorrhea; endocrine disorder; infection;
KW inflammatory condition; immune disorder; blood disorder;
KW cardiovascular disorder; respiratory disorder; neurological disorder;
KW gastrointestinal disorder; urinary system disorder; drug screening;
KW gene therapy; chromosome mapping; forensic analysis;
KW antibody preparation; cytostatic; immunomodulatory; neuroprotective;
KW antiinflammatory; gynaecological; reproductive; gene; ss.
XX Homo sapiens.
OS
XX W0200200677-A1.
XX
XX 03-JAN-2002.
XX
XX 07-JUN-2001; 2001WO-US018569.
XX
XX 07-JUN-2000; 2000US-0209467P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Birse CE, Rosen CA;
XX
XX WFI; 2002-147878/19.
XX P-PSDB; ABP42157.
XX
XX Isolated nucleic acid molecules encoding novel ovarian polypeptides,
XX useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian
XX cancer), immune disorders, cardiovascular disorders and neurological
XX diseases.
XX
XX Claim 1; SEQ ID NO 1114; 2922pp; English.
XX

CC The invention relates to 2175 novel human ovarian antigens (ABP41054-
CC ABP43228) and to cDNAs encoding them (ABO54131-ABO56305), and also
CC encompasses polypeptides 90% identical and polynucleotides 95% identical
CC to the sequences of the invention. The invention additionally relates to
CC recombinant vectors and host cells comprising human ovarian antigen
CC polynucleotides, antibodies against human ovarian antigens, and the use
CC of ovarian antigen polynucleotides and polypeptides in diagnosing,
CC treating, prognosing or preventing various ovary and/or breast-related
CC disorders. Such conditions include ovarian cancer and breast cancer, and
CC metastatic tumours of ovarian or breast origin, reproductive system
CC disorders (e.g., infertility, disorders of pregnancy, anovulation,
CC polycystic ovary syndrome, ovarian cysts, and dysmenorrhea), endocrine
CC disorders, infections (e.g., chlamydia, HIV, toxoplasmosis), and toxic
CC shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and
CC vaginitis), immune disorders (e.g., congenital and acquired
CC immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),
CC blood-related disorders (e.g., anaemia), cardiovascular disorders,
CC respiratory disorders, neurological disorders, gastrointestinal disorders
CC and urinary system disorders. Ovarian antigen polypeptides and
CC polynucleotides may also be used in screening for compounds which
CC modulate ovarian antigen expression or activity. The polynucleotides may
CC further be used for gene therapy, chromosome mapping, in the
CC identification of individuals and in forensic analysis, and the
CC polypeptides may be used as food additives or to prepare antibodies
CC useful in disease diagnosis, drug targeting and phenotyping. The present
CC sequence represents cDNA encoding a human ovarian antigen of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 663 BP; 213 A; 148 C; 144 G; 152 T; 0 U; 6 Other;
Query Match 49.7%; Score 595.8; DB 6; Length 663;
Best Local Similarity 99.5%; Pred. No. 1.6e-140;
Matches 597; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 2 GAACATAAAAGAACTTTATTTATTGAGGGCAAGGGGATCAAAACAAATACAAAAATCAAA 61
Db 601 GAACATAAAAGAACTTTATTTATTGAGGGCAAGGGGATCAACCAATNCAAAAAATCAAA 542
Qy 62 AGCTTATCTGGTATTTAACTTTTCTTCTGCTGTTCAATGAGAGTTAGATTTATTT 121
Db 541 AGCTTATCTGGTATTTAACTTTTCTTCTGCTGTTCAATGAGAGTTAGATTTATTT 482
Qy 122 TTACATTTGCTAAGTCCTGATCTCATGAATCCCTTCTATGCGGGAAGCTGTGGGG 181
Db 481 TTACATTTGCTAAGTCCTGATCTGCTCATGAATCCCTTCTATGCGGGAAGCTGTGGGG 422
Qy 182 CAGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCGAATCTCATTT 241
Db 421 CAGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCGAATCTCATTT 362
Qy 242 CTGCTTACTTTTCCCTTCTGCTTCAATGTTACTACAAAATAGTCAATTCGATGCAATGG 301
Db 361 CTGCTTACTTTTCCCTTCTGCTTCAATGTTACTACAAAATAGTCAATTCGATGCAATGG 302
Qy 302 TGAGGCCCGCAATTAGGGAAGAAGCTCTGGAGCCCACTTTGCCATCTCTACACTGGT 361
Db 301 TGAGGCCCGCAATTAGGGAAGAAGCTCTGGAGCCCACTTTGCCATCTCTACACTGGT 242
Qy 362 CCAGGTCCTTTCATTATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAAATCCAG 421
Db 241 CCAGGTCCTTTCATTATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAAATCCAG 182
Qy 422 GGAATCTCTTTTCCATGAGTACTCTCAGGTCCTCTCTTTTGTTAAGTAGCCTTTATCCCCAG 481
Db 181 GGAATCTCTTTTCCATGAGTACTCTCAGGTCCTCTCTTTTGTTAAGTAGCCTTTATCCCCAG 122
Qy 482 CGAATTTGTGAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAATTT 541
Db 121 CGAATTTGTGAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAATTT 62
Qy 542 TGGTGTGTCGTTGAAGCCTTGGCCGAGCGCGCGAGCGCTGGGCGAGCTGGGCGAGC 601

Db	61	TGGTGTGGTCCGTTGAAGCCTTGGCCGAGCGCGGACGCTGGCGAGCTGGCGGAGC	2
Db	61		
Db	519		
Qy	121		
Db	459		
Qy	181		
Db	399		
Qy	241		
Db	340		
Qy	301		
Db	280		
Qy	361		
Db	220		
Qy	421		
Db	160		
Qy	481		
Db	100		
Qy	541		
Db	40		
RESULT 18			
ID	ABK45339		
XX	ABK45339 standard; cDNA; 571 BP.		
AC	ABK45339;		
XX	05-JUN-2002 (first entry)		
DT	05-JUN-2002 (first entry)		
XX	CDNA encoding colon tumour protein, SEQ ID No 890.		
DE	Human; colon tumour; vaccine; colon cancer; immunogenic; immunotherapy;		
XX	gene; ss.		
KW	Homo sapiens.		
OS	WO200212328-A2.		
XX	14-FEB-2002.		
PD	31-JUL-2001; 2001WO-US024218.		
XX	03-AUG-2000; 2000US-0223283P.		
PR	28-MAR-2001; 2001US-0279763P.		
PR	29-JUN-2001; 2001US-0302051P.		
XX	(CORI-) CORIXA CORP.		
PA	King GE, Meagher MJ, Xu J, Secretist H;		
PI	WPI; 2002-241739/29.		
XX	New colon cancer polypeptides and polynucleotides, useful as vaccines,		
PT	for diagnosing, preventing, and treating colon cancer, and as markers for		
PT	the progression of cancer.		
XX			

PS	Claim 1; SEQ ID NO 890; 147pp; English.	
XX	The invention relates to polynucleotides encoding colon tumour proteins.	
CC	The polynucleotides and encoded polypeptides are useful in pharmaceutical	
CC	compositions, such as vaccines, for the diagnosis, prevention, and	
CC	treatment of colon cancer. Polynucleotide sequences may be used as	
CC	hybridisation probes or primers, and in the design and preparation of	
CC	ribozyme molecules for inhibiting expression of tumour polypeptides and	
CC	proteins in tumour cells. The compositions are useful for stimulating an	
CC	immune response against cancer, particularly for the immunotherapy of	
CC	colon cancer, and as markers for the progression of cancer. ABK4450-	
CC	ABK46237 represent coding sequences of human colon tumour proteins of the	
CC	invention. Note: With the exception of SEQ ID NO 1 and 2, the sequence	
CC	data for this patent did not form part of the printed specification but	
CC	was supplied by the European Patent Office	
XX		
SEQ	Sequence 571 BP; 139 A; 115 C; 107 G; 203 T; 0 U; 7 Other;	
	Query Match 44.8%; Score 537; DB 6; Length 571;	
	Best Local Similarity 98.7%; Pred. No. 1.2e-125;	
	Matches 537; Conservative 0; Mismatches 7; Indels 0; Gaps 0;	
Qy	1 GGAACATAAAAGAACCTTTATTATTGAGGCGAAGGGATGCAAAACAATCAAAATCAA 60	
Db	28 GNAACATAAAANAACCTTTATTATTGAGGCGAAGGGATGCAAAACAATCAAAATCAA 87	
Qy	61 AAGCTTATCTGGTATTAACTTTCTCTGCTGCTCAAAATCAGAGTTAGATTTTATT 120	
Db	88 AAGCTTATCTGGTATTAACTTTCTCTGCTGCTCAAAATCAGAGTTAGATTTTATT 147	
Qy	121 TTTCATTTGCTAAGTGTCTCTGATCTGCTCATGAAATCCTTTATGGGGGAAGCTGTGGG 180	
Db	148 TTTCATTTGCTAAGTGTCTCTGATCTGCTCATGAAATCCTTTATGGGGGAAGCTGTGGG 207	
Qy	181 GCAGATTCTTAAGCGACCCCTTTGGGACAACTTTATCAGGGAGGAGCAACTGCTCATT 240	
Db	208 GCANATTCTTAAGCGACCCCTTTGGGACAACTTTATCAGGGAGGAGCAACTGCTCATT 267	
Qy	241 TCTGCCCTACTCTTTCCCTCTCTGCTTCAATGCTACTACAAATAGTTCATTCGATGCAATG 300	
Db	268 TCTGCCCTACTCTTTCCCTCTCTGCTTCAATGCTACTACAAATAGTTCATTCGATGCAATG 327	
Qy	301 GTGAGGCCCGCAATTAGGGAAGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360	
Db	328 GTGAGGCCCGCAATTAGGGAAGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 387	
Qy	361 TCAGGTCTCTCATTATTATTTGTCCACAGCAGAGGCTCTTTTGTATTTTCCAAATATCCA 420	
Db	388 TCCAGGTCTCTCATTATTATTTGTCCACAGCAGAGGCTCTTTTGTATTTTCCAAATATCCA 447	
Qy	421 GGGAACTCTTTTCCATGAGTACTCTCAGGTCTCTTCTTGTAGTAGCCCTTTATCCCCA 480	
Db	448 GGGAACTCTTTTCCATGAGTACTCTCAGGTCTCTTCTTGTAGTAGCCCTTTATCCCCA 507	
Qy	481 GCGAATTTGTGAATGTAAACATCATGGTTTCCATGGCGTGTGTCCATTTCAGATGGCATT 540	
Db	508 GCGAATTTGTGAATGTAAACATCATGGTTTCCATGGCGTGTGTCCATTTCAGATGGCATT 567	
Qy	541 TTGG 544	
Db	568 TTGG 571	
RESULT 19		
ID	AAC10823/c	
XX	AAC10823 standard; cDNA; 582 BP.	
AC		
AC	AAC10823;	
XX		
DT	06-OCT-2000 (first entry)	
XX	Human secreted protein 5' EST, SEQ ID NO: 14898.	
DE		
XX		

KW	Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;	
XX	gene therapy; chromosome mapping; ss.	
XX		
OS	Homo sapiens.	
XX		
PN	EP1033401-A2.	
XX		
PD	06-SEP-2000.	
XX		
PF	21-FEB-2000; 2000EP-00200610.	
XX		
PR	26-FEB-1999; 99US-0122487P.	
XX		
PA	(GEST) GENSET.	
XX		
PI	Dumas Milne Edwards J, Duclert A, Giordano J;	
XX		
DR	WPI; 2000-500381/45.	
XX		
PT	New nucleic acid that is a 5' expressed sequence tag (5' EST) for	
PT	obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for	
PT	diagnostic, forensic, gene therapy and chromosome mapping procedures.	
XX		
PS	Claim 1; SEQ ID NO 14898; 7ipp + Sequence Listing; English.	
XX		
CC	The present sequence is one of a large number of 5' ESTs derived from	
CC	mRNAs encoding secreted proteins. No ORF has yet been conclusively	
CC	identified within the present sequence. The 5' ESTs were prepared from	
CC	total human RNAs or polyA+ RNAs derived from 30 different tissues. EST	
CC	sequences usually correspond mainly to the 3' untranslated region (UTR)	
CC	of the mRNA because they are often obtained from oligo-dT primed cDNA	
CC	libraries. Such ESTs are not well suited for isolating cDNA sequences	
CC	derived from the 5' ends of mRNAs and even in those cases where longer	
CC	cDNA sequences have been obtained, the full 5' UTR is rarely included. 5'	
CC	ESTs are derived from mRNAs with intact 5' ends and can therefore be used	
CC	to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in	
CC	diagnostic, forensic, gene therapy and chromosome mapping procedures.	
CC	They are used to obtain upstream regulatory sequences and to design	
CC	expression and secretion vectors	
XX		
SEQ	Sequence 582 BP; 183 A; 135 C; 130 G; 129 T; 0 U; 5 Other;	
	Query Match 43.6%; Score 523; DB 3; Length 582;	
	Best Local Similarity 97.9%; Pred. No. 4.1e-122;	
	Matches 547; Conservative 4; Mismatches 4; Indels 4; Gaps 2;	
Qy	30 GGCAAGGGATGCAAAACAATACAAAAATCAAAAGCTTATCTGTATTAACTTTCTTTC 89	
Db	582 GGCAAGGGATGCAAAACAATACAAAAATCAAAAGCTTATCTGTATTAACTTTCTTTC 523	
Qy	90 TCTGCTTGCAAAATGAGAGTTAGATTTTATTTTACATTGTCTAAGTCTCTGATCTGCT 149	
Db	522 TCTGCTTGCAAAATGAGAGTTAGATTTTATTTTACATTGTCTAAGTCTCTGATCTGCT 463	
Qy	150 CATGAAATCCTTCTATGGGGGAAGCTGTGGGGCAGATTCTTAAAGCGACCCCTTTGGACA 209	
Db	462 CATGAAATCCTTCTATGGGGGAAGCTGTGGGGCAGATTCTTAAAGCGACCCCTTT--GACA 405	
Qy	210 ACTCTTATCAGGGAGGAGGAACTGCTCATTTCTGCTACTCTTCTTCCCTCTGCTTCAT 269	
Db	404 ACTCTTATCAGGGAGGAGGAACTGCTCATTTCTGCTACTCTTCTTCCCTCTGCTTCAT 345	
Qy	270 GTGTACTACAAAATAGTTCATTGTCATGCAATGGTGGCCCGCAATTTAGGAAAAAGAGCT 329	
Db	344 GTGTACTACAAAATAGTTCATTGTCATGCAATGGTGGCCCGCAATTTAGGAAAAAGAGCT 285	
Qy	330 CTGGAAGCCCACTTTGCCATCTCTACATGGTGCAGGTCTTCATTATTTTGTCCACAGC 389	
Db	284 CTGGAAGCCCACTTTGCCATCTCTACATGGTGCAGGTCTTCATTATTTTGTCCACAGC 225	
Qy	390 CAGAGGGTCTTTTGAATTTTCCAAAAATCCAGGGAATCTCTTTCCATGAGTACTCTCAG 449	
Db	224 CAGAGGGTCT--TTTGAATTTTCCAAAAATCCAGGGAATCTCTTTTCCATGAGTACTCTCAG 167	

QY 450 GTCCTCTCTTTTAAAGTAGCCCTTTATCCACGCGAAATTTGTGAATGTAAACATCATGGT 509
 |||||
 DB 166 GTCCTCTCTTTTAAAGTAGCCCTTTATCCACGCGAAATTTGTGAATGTAAACATCATGGT 107
 |||||
 QY 510 TTCCATGCGGTGTTCCATTTGAGATGGCATTTTGGTGTGGTCCCTTGAAGCCTTTGGCCGA 569
 |||||
 DB 106 TTCCATGCGGTGTTCCATTTGAGATGGCATTTTGGTGTGGTCCCTTGAAGCCTTTGGCCGA 47
 |||||
 QY 570 GGCGCGCGGACGCTGGGC 588
 |||||
 DB 46 GGCGCGCGGCTGTGCGC 28
 |||||
 RESULT 20
 ID ADK11670/c
 XX ADK11670 standard; DNA; 530 BP.
 AC ADK11670;
 XX
 DT 06-MAY-2004 (first entry)
 XX
 DE Breast cancer differentially expressed gene product #76.
 XX
 KW ds; cytostatic; gene therapy; DXFzp5661133 activity inhibitor;
 KW breast cancer; differential expression.
 XX
 OS Homo sapiens.
 XX
 PN WO2003057926-A1.
 XX
 PD 17-JUL-2003.
 XX
 PF 08-JAN-2003; 2003WO-US000657.
 XX
 PR 08-JAN-2002; 2002US-0345637P.
 XX
 PA (CHIR) CHIRON CORP.
 XX
 PI Hansen R;
 XX
 DR WPI; 2003-577534/54.
 XX
 XX Inhibiting a cancerous phenotype of a cell, useful for treating breast
 PT cancer comprises contacting a cancerous mammalian cell with an agent for
 PT inhibition of DXFzp5661133 activity.
 XX
 PS Claim 30; SEQ ID NO 76; 257pp; English.
 XX
 CC The invention relates to a method of inhibiting a cancerous phenotype of
 CC a cell comprises contacting a cancerous mammalian cell with an agent for
 CC inhibition of DXFzp5661133 activity. The methods are useful for treating
 CC cancer, e.g. breast cancer. This sequence represents a gene product which
 CC is differentially expressed in breast cancer cells. The sequence can be
 CC used in the method of the invention.
 XX
 SQ Sequence 530 BP; 160 A; 133 C; 124 G; 113 T; 0 U; 0 Other;
 XX
 Query Match 43.1%; Score 516.8; DB 10; Length 530;
 Best Local Similarity 99.6%; Pred. No. 1.5e-120;
 Matches 518; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 102 ATGAGAGTTAGATTTTATTTTACATTTGCTTAAGTGTCTGATCTGCTCATGAATCCTT 161
 |||||
 DB 530 ATGAGAGTTAGATTTTATTTTACATTTGCTTAAGTGTCTGATCTGCTCATGAATCCTT 471
 |||||
 QY 162 CTATGGGGGAAGCTGTGGGCGAGATTCCTTAAGCGACCCCTTTGGGACAACCTTTATCAGG 221
 |||||
 DB 470 CTATGGGGGAAGCTGTGGGCGAGATTCCTTAAGCGACCCCTTTGGGACAACCTTTATCAAG 411
 |||||
 QY 222 GAGGAGGAAGCTGCTCATTTTCTGCTACTCTTTCCCTTCTGCTTCAATGTGTACTACAA 281
 |||||
 DB 410 GAGGAGGAAGCTGCTCATTTCTGCTACTCTTTCCCTTCTGCTTCAATGTGTACTACAA 351
 |||||

QY 282 ATAGTCATTGCAATGCTGAGGCCCGCAATTAGGAAAAAGAGCTCTGGAAGCCAC 341
 |||||
 DB 350 ATAGTCATTGCAATGCTGAGGCCCGCAATTAGGAAAAAGAGCTCTGGAAGCCAC 291
 |||||
 QY 342 TTGCGCATCTCTACATGCTGCTCAGGTCCTTTCATTTTGTCCACAGCCAGAGGCTCTTT 401
 |||||
 DB 290 TTGCGCATCTCTACATGCTGCTCAGGTCCTTTCATTTTGTCCACAGCCAGAGGCTCTTT 231
 |||||
 QY 402 TTGATTTTCCAAAAATCCAGGGAACCTTTTCCATGAGTACTCTCAGGTCCTCTTTGT 461
 |||||
 DB 230 TTGATTTTCCAAAAATCCAGGGAACCTTTTCCATGAGTACTCTCAGGTCCTCTTTGT 171
 |||||
 QY 462 TAAGTAGCCTTTATCCCCAGCGAAATTTGTGAATGTAAACATCATGTTTCCATGGCGTG 521
 |||||
 DB 170 TAAGTAGCCTTTATCCCCAGCGAAATTTGTGAATGTAAACATCATGTTTCCATGGCGTG 111
 |||||
 QY 522 TTCATTTGAGATGGCATTTTGGTGTGGTCCGTTGAAGCCTTTGGCCGAGCGCGCGGAC 581
 |||||
 DB 110 TTCATTTGAGATGGCATTTTGGTGTGGTCCGTTGAAGCCTTTGGCCGAGCGCGCGGAC 51
 |||||
 QY 582 GCTGGCGAGCTGGCGAGCTGGACCGCGGCGGAGAGGC 621
 |||||
 DB 50 GCTGGCGAGCTGGCGAGCTGGACCGCGGCGGAGAGGC 11
 |||||
 RESULT 21
 ACC51060/c
 ID ACC51060 standard; cDNA; 2016 BP.
 XX
 AC ACC51060;
 XX
 DT 13-JUN-2003 (first entry)
 XX
 DE Human S-100a10 Related Protein coding sequence.
 XX
 KW Human; GENSET; therapeutic; therapy; gene; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200294864-A2.
 XX
 PD 28-NOV-2002.
 XX
 PF 06-AUG-2001; 2001WO-IB001715.
 XX
 PR 25-MAY-2001; 2001US-0293574P.
 PR 15-JUN-2001; 2001US-0298698P.
 PR 29-JUN-2001; 2001US-0302277P.
 PR 13-JUL-2001; 2001US-0305456P.
 XX
 PA (GEST) GENSET.
 XX
 PI Bejanin S, Tanaka H;
 XX
 DR WPI; 2003-129412/12.
 DR
 DR P-PSDB; ABR48453.
 XX
 XX New GENSET polynucleotides and polypeptides, useful for preparing a
 PT composition for treating GENSET-related disorders and as reagents in
 PT assays to quantitatively determined levels of GENSET expression in
 PT biological samples.
 XX
 PS Claim 1; Page 400-401; 505pp; English.
 XX
 CC The present invention relates to novel human GENSET coding sequences
 CC (ACC51060-ACC51115) and proteins (ABR48453-ABR48508). The GENSET
 CC sequences are useful for preparing a composition for treating GENSET-
 CC related disorders. They can also be used as markers for tissues in which
 CC the corresponding protein is preferentially expressed, as molecular
 CC weight markers on Southern gels, as chromosome markers or tags to
 CC identify chromosomes, and as reagents in assays to quantitatively
 CC determined levels of GENSET expression in biological samples

XX SQ Sequence 2016 BP; 625 A; 461 C; 428 G; 502 T; 0 U; 0 Other;

Query Match 40.5%; Score 485.2; DB 8; Length 2016;
Best Local Similarity 94.7%; Pred. No. 2.6e-112;
Matches 502; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

Qy 73 TATTAACTTTCTCTCTGCTGTCGCTCAAAATGAGTTAGATTATTTTACATTGCT 132
Db TTTTCTCTCTCTCTCTGCTGTCGCTCAAAATGAGTTAGATTATTTTACATTGCT 1953

Qy 133 AAGTGTCTGATCTGCTCATGAATCTTCTATGGGGAAGCTGTGGGAGATTCTCTTA 192
Db AAGTGTCTGATCTGCTCATGAATCTTCTATGGGGAAGCTGTGGGAGATTCTCTTA 1993

Qy 193 AGGACCTTTGGGACAACTCTTATCAGGAGAGAGGAACTGCTCATTTCTGCTACTTC 252
Db AGGACCTTTGGGACAACTCTTATCAGGAGAGAGGAACTGCTCATTTCTGCTACTTC 1833

Qy 253 TTTCCCTTCTGCTTCATGCTGCTACTACAAATAGTTCATGCAATGGTGAGGCCGCA 312
Db TTTCCCTTCTGCTTCATGCTGCTACTACAAATAGTTCATGCAATGGTGAGGCCGCA 1773

Qy 313 ATTAGGAAAAGAGCTCTGGAAGCCCACTTGGCCATCTCTACACTGGTCCAGGTCTTTC 372
Db ATTAGGAAAAGAGCTCTGGAAGCCCACTTGGCCATCTCTACACTGGTCCAGGTCTTTC 1713

Qy 373 ATTATTTTGTCCAGCAGGAGGCTCTTTTGTATTTTCCAAAATCCAGGAACTCTCTTT 432
Db ATTATTTTGTCCAGCAGGAGGCTCTTTTGTATTTTCCAAAATCCAGGAACTCTCTTT 1653

Qy 433 TCCATGAGTACTCTCAGTCTCTCTTTGTTAAAGTAGCTTTATCCCGAGATTGTGA 492
Db TCCATGAGTACTCTCAGTCTCTCTTTGTTAAAGTAGCTTTATCCCGAGATTGTGA 1593

Qy 493 AATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATTTTGGTGTGTCC 552
Db AATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATTTTGGTGTGTCC 1533

Qy 553 GTTGAAGCCTTGGCCGAGGCGCGGAGCCTGGGCGAGCTGGGCGAGCT 602
Db GTTGAAGCCTTGGCCGAGGCGCGGAGCCTGGGCGAGCTGGGCGAGCT 1483

RESULT 22
ACH34296/c
ID ACH34296 standard; cDNA; 477 BP.
XX AC ACH34296;
XX AC ACH34296;
XX AC ACH34296;
DT 13-OCT-2003 (first entry)
XX Human endothelial cell cDNA #2429.
DE Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST;
XX Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST;
KW genome mapping; biodiversity; genetic disorder.
XX Homo sapiens.
XX Homo sapiens.
PN US2003073623-A1.
XX US2003073623-A1.
PD 17-APR-2003.
XX 17-APR-2003.
PF 30-JUL-2001; 2001US-00918995.
XX 30-JUL-2001; 2001US-00918995.
PR 30-JUL-2001; 2001US-00918995.
XX 30-JUL-2001; 2001US-00918995.
PA (DRMA/) DRMANAC R T.
PA (LABA/) LABAT I.
PA (STAC/) STACHE-CRAIN B.
PA (DICK/) DICKSON M C.
PA (JONE/) JONES L W.
XX

PI Drmanac RT, Labat I, Stache-Crain B, Dickson MC, Jones LW;
XX WPI; 2003-615964/58.
DR WPI; 2003-615964/58.
XX WPI; 2003-615964/58.
PT New polynucleotide sequences obtained from various cDNA libraries, useful
PT as hybridization probes, as oligomers for PCR, for chromosome and gene
PT mapping, in the recombinant production of protein, or in generating
PT antisense DNA or RNA.
XX Claim 1; SEQ ID NO 21508; 44pp; English.
PS Claim 1; SEQ ID NO 21508; 44pp; English.
XX The invention relates to an isolated polynucleotide comprising any one of
CC 38043 cDNA sequences, appearing as ACH12789-ACH50831, whose sequence was
CC determined by the technique of SBH (sequencing by hybridisation). Also
CC included is a purified polypeptide comprising a sequence corresponding to
CC a reading frame of the novel polynucleotide. The nucleic acid sequences
CC are useful in diagnostics as expressed sequence tags (EST) for
CC identifying expressed genes or for physical mapping of the human genome,
CC in forensics, in assessing biodiversity, or in identifying mutations
CC responsible for genetic disorders and other traits. The nucleotide
CC sequences are also useful as hybridisation probes, as oligomers for PCR,
CC for chromosome and gene mapping, in the recombinant production of
CC protein, or in generating antisense DNA or RNA. The purified polypeptide
CC is useful for generating antibodies specific for it. The present sequence
CC is one of the 38043 isolated cDNA/EST sequences. Note: The sequence data
CC for this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?DocID=20030073623
XX
SQ Sequence 477 BP; 158 A; 100 C; 109 G; 109 T; 0 U; 1 Other;

Query Match 35.8%; Score 429.4; DB 9; Length 477;
Best Local Similarity 99.8%; Pred. No. 1.9e-98;
Matches 430; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 92 TGCTTCTCAAAATGAGAGTTAGATTTTATTTTACATTTGCTAAGTGTCTGTGATCTGCTCA 151
Db TTTTCTCTCAAAATGAGAGTTAGATTTTATTTTACATTTGCTAAGTGTCTGTGATCTGCTCA 418

Qy 152 TGAATCTCTTCTATGGGGAAGCTGTGGGAGAGTTCTTAAAGGACCTTTGGGACAC 211
Db TGAATCTCTTCTATGGGGAAGCTGTGGGAGAGTTCTTAAAGGACCTTTGGGACAC 358

Qy 212 TCTTATCAGGAGGAGCGAACTGCTCATTTCTGCTTACTTCTTCTCTCTCTCTCTCTCTCT 271
Db TCTTATCAGGAGGAGCGAACTGCTCATTTCTGCTTACTTCTTCTCTCTCTCTCTCTCTCT 298

Qy 272 GTACTACAAAATAGTCAATTCATGCAATGGTGAGGCCCGCAATTAGGGAAGAAAGCTCT 331
Db GTACTACAAAATAGTCAATTCATGCAATGGTGAGGCCCGCAATTAGGGAAGAAAGCTCT 238

Qy 332 GGAAGCCCACTTTGCCATCTCTACACTGGTCCAGGTCCTTATTTTGTCCACAGCCA 391
Db GGAAGCCCACTTTGCCATCTCTACACTGGTCCAGGTCCTTATTTTGTCCACAGCCA 178

Qy 392 GAGGTCCTTTTTCATTTTCCAAAATCCAGGGAACCTCTTTTCCATGAGTACTCTCAGGT 451
Db GAGGTCCTTTTTCATTTTCCAAAATCCAGGGAACCTCTTTTCCATGAGTACTCTCAGGT 118

Qy 452 CCTCTCTTTGTTAAGTAGCCTTTATCCAGAGCGAATTTGTGAATGTAACATCATGGTTT 511
Db CCTCTCTTTGTTAAGTAGCCTTTATCCAGAGCGAATTTGTGAATGTAACATCATGGTTT 58

Qy 512 CCATGGCGTGT 522
Db CCATGGCGTGT 47

RESULT 23
ADF79487/c
ID ADF79487 standard; DNA; 434 BP.
XX ADF79487;
AC ADF79487;

```
XX 26-FEB-2004 (first entry)
DT Leukaemia-related DNA sequence #43.
DE Cytostatic; Gene therapy; leukaemia; ss.
XX Unidentified.
XX WO2003039443-A2.
XX 15-MAY-2003.
XX 04-NOV-2002; 2002WO-EP012303.
XX 05-NOV-2001; 2001EP-00126244.
XX 30-APR-2002; 2002EP-00009758.
XX (DEKR-) DEUT KREBSFORSCHUNGSZENTRUM.
XX (UYLJ-) UNIV LUDWIG MAXIMILIANS.
XX (HAFE/) HAERLACH T.
XX (SCHO/) SCHOCH C.
XX (KERN/) KERN W.
XX Haerlach T, Schoch C, Kern W, Kohlmann A, Schnittger S, Dugas M;
PI Ellis R, Brors B, Mergenthaler S;
XX WPI; 2003-505037/47.
XX
XX Determining the subtype of leukemia cells and whether a patient sample
PT contains leukemia cells or other cells, useful for treating leukemia,
PT comprises determining the expression profile of a group of markers in a
PT patient sample.
XX
XX Disclosure; SEQ ID NO 43; 2938pp; English.
XX
XX The present invention relates to a method (M1) for determining the
CC subtype of leukemia cells and whether a patient sample contains
CC leukemia cells. The method comprises determining the expression profile
CC of a group of markers in a patient sample. The method is useful for
CC determining the presence of leukemia cells, its types or subtypes, and
CC for the preparation of a medicament for treating leukaemia.
XX
XX Sequence 434 BP; 139 A; 96 C; 102 G; 97 T; 0 U; 0 Other;
SQ
Query Match 35.3%; Score 423; DB 10; Length 434;
Best Local Similarity 99.8%; Pred. No. 7.7e-97;
Matches 434; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
XX 126 ATTTGCTAAGTGCTCTGATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGGGCAGA 185
DB 434 ATTTGCTAAGTGCTCTGATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGGGCAGA 375
XX 186 TTCTTAAGGACCCCTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCATTTCTGC 245
DB 374 TTCTTAAGGACCCCTTT-GGACAACTTTATCAGGAGGAGCGAACTGCTCATTTCTGC 316
XX 246 CTACTCTTTCCCTTCTGCTTCATGTGCTACTACAAAATAGTCTGATGCAATGCTGAG 305
DB 315 CTACTCTTTCCCTTCTGCTTCATGTGCTACTACAAAATAGTCTGATGCAATGCTGAG 256
XX 306 GCCCGCAATTAGGGAAGAGCTCTGGAAGCCCACTTTTGGCATCTCTACACTGCTCCAG 365
DB 255 GCCCGCAATTAGGGAAGAGCTCTGGAAGCCCACTTTTGGCATCTCTACACTGCTCCAG 196
XX 366 GTCTCTTCAATTATTTTGTCCACAGCAGGAGGTCTTTTGTATTTTCCAAAATCAGGAA 425
DB 195 GTCTCTTCAATTATTTTGTCCACAGCAGGAGGTCTTTTGTATTTTCCAAAATCAGGAA 136
XX 426 CTCCTTTTCCATGAGTACTCTCAGTCTCTCTTTTAAAGTAGCTTTATCCCGAGGAA 485
DB 135 CTCCTTTTCCATGAGTACTCTCAGTCTCTCTTTTAAAGTAGCTTTATCCCGAGGAA 76
OY 486 TTTGTGAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGCGATTTGGT 545
DB 75 TTTGTGAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGCGATTTGGT 16
OY 546 GTGGTCCGTTGAAGC 560
DB 15 GTGGTCCGTTGAAGC 1
RESULT 24
ACH25344/C
ID ACH25344 standard; CDNA; 466 BP.
XX
XX ACH25344;
XX 13-OCT-2003 (first entry)
XX Human adult ovary cDNA #3724.
XX
XX Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST;
XX genome mapping; biodiversity; genetic disorder.
XX
XX Homo sapiens.
XX
XX US2003073623-A1.
XX 17-APR-2003.
XX
XX 30-JUL-2001; 2001US-00918995.
XX
XX 30-JUL-2001; 2001US-00918995.
XX
XX (DRMA/) DRMANAC R T.
XX (LABA/) LABAT I.
XX (STAC/) STACHE-CRAIN B.
XX (DICK/) DICKSON M C.
XX (JONE/) JONES L W.
XX
XX Drmanac RT, Labat I, Stache-Crain B, Dickson MC, Jones LW;
WPI; 2003-615964/58.
XX
XX New polynucleotide sequences obtained from various cDNA libraries, useful
PT as hybridization probes, as oligomers for PCR, for chromosome and gene
PT mapping, in the recombinant production of protein, or in generating
PT antisense DNA or RNA.
XX
XX Claim 1; SEQ ID NO 12556; 44pp; English.
XX
XX The invention relates to an isolated polynucleotide comprising any one of
CC 38043 cDNA sequences, appearing as ACH12789-ACH50831, whose sequence was
CC determined by the technique of SBH (sequencing by hybridisation). Also
CC included is a purified polypeptide comprising a sequence corresponding to
CC a reading frame of the novel polynucleotide. The nucleic acid sequences
CC are useful in diagnostics as expressed sequence tags (EST) for
CC identifying expressed genes or for physical mapping of the human genome,
CC in forensics, in assessing biodiversity, or in identifying mutations
CC responsible for genetic disorders and other traits. The nucleotide
CC sequences are also useful as hybridisation probes, as oligomers for PCR,
CC for chromosome and gene mapping, in the recombinant production of
CC protein, or in generating antisense DNA or RNA. The purified polypeptide
CC is useful for generating antibodies specific for it. The present sequence
CC is one of the 38043 isolated cDNA/EST sequences. Note: The sequence data
CC for this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?docID=20030073623
XX
XX Sequence 466 BP; 142 A; 102 C; 108 G; 106 T; 0 U; 8 Other;
SQ
Query Match 35.2%; Score 422; DB 9; Length 466;
Best Local Similarity 100.0%; Pred. No. 1.4e-96;
Matches 422; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 125 CATTGTGAAGTGTCTGATCTGCTCATGAATCCTTCTATGGGGGAAGCTGTGGGCAG 184
Db |||||
Qy 466 CATTGTCTAAGTGTCTGATCTGCTCATGAATCCTTCTATGGGGGAAGCTGTGGGCAG 407
Db |||||
Qy 185 ATTCCCTTAAGGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCATTTCTG 244
Db |||||
Qy 406 ATTCCCTTAAGGACCCCTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCATTTCTG 347
Db |||||
Qy 245 CCTACTTCTTTCCCTCTCTGCTTCATGTGTAACAAATAGTCAATTCATGCAATGTGA 304
Db |||||
Qy 346 CCTACTTCTTTCCCTCTCTGCTTCATGTGTAACAAATAGTCAATTCATGCAATGTGA 287
Db |||||
Qy 305 GGCCCGCAATTAGGAAAAGAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGTGCCA 364
Db |||||
Qy 286 GGCCCGCAATTAGGAAAAGAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGTGCCA 227
Db |||||
Qy 365 GGTCCCTTCAATATTTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAATCCAGGGA 424
Db |||||
Qy 226 GGTCCCTTCAATATTTTGTCCACAGCCAGAGGCTCTTTTGTATTTTCCAAAATCCAGGGA 167
Db |||||
Qy 425 ACTCCTTTTCCATCAGTACTCTCAGGTCTCTCTTTGTTTAAAGTAGGCTTTATCCCGCGGA 484
Db |||||
Qy 166 ACTCCTTTTCCATCAGTACTCTCAGGTCTCTCTTTGTTTAAAGTAGGCTTTATCCCGCGGA 107
Db |||||
Qy 485 ATTTGTGAATGTAAACATCATGTGTTTCCATGGCGTGTTCATTTGAGATGGCATTTTGG 544
Db |||||
Qy 106 ATTTGTGAATGTAAACATCATGTGTTTCCATGGCGTGTTCATTTGAGATGGCATTTTGG 47
Db |||||
Qy 545 TG 546
Db ||
46 TG 45

RESULT 25
AAH35326/c
ID AAF75092 standard; cDNA; 441 BP.
XX
AC AAF75092;
XX
DT 10-MAY-2001 (first entry)
XX
DE Human colon associated protein cDNA sequence #16.
XX
KW Human; colon; cancer; disease; ss.
XX
OS Homo sapiens.
XX
PN WO200112781-A1.
XX
PD 22-FEB-2001.
XX
PF 11-AUG-2000; 2000WO-US022157.
XX
PR 13-AUG-1999; 99US-0148680P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Birse CE, Rosen CA;
XX
DR WPI; 2001-147551/15.
XX
PT Nucleic acids encoding 13 human colon cancer associated polypeptides,
XX useful for preventing, diagnosing and/or treating e.g. cancers
XX (especially colon cancer), Parkinson's disease and diabetic retinopathy.
PS Claim 1; Page 314; 326pp; English.
XX
PT The present invention relates to 13 human colon cancer-associated
XX proteins. These proteins and the nucleic acid encoding them may be used
XX in the prevention, diagnosis and treatment of diseases associated with
XX inappropriate colon cancer-associated protein expression
XX
SQ Sequence 441 BP; 158 A; 87 C; 89 G; 107 T; 0 U; 0 Other;

Query Match 34.3%; Score 411; DB 4; Length 441;
Best Local Similarity 100.0%; Pred. No. 8.5e-94;
Matches 411; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGAACTAAATAAGAACTTTATTTATTTGAGGGCAAGGGATGCAAAACAATACAAAAAATCAA 60
Db |||||
Qy 61 AAGCTTATCTGGTATTTAACTTTTCTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATT 120
Db |||||
Qy 358 AAGCTTATCTGGTATTTAACTTTTCTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATT 299
Db |||||
Qy 121 TTTACATTTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGG 180
Db |||||
Qy 298 TTTACATTTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGG 239
Db |||||
Qy 181 GCAGATTCTCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCGAACTGTCTATT 240
Db |||||
Qy 238 GCAGATTCTCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCGAACTGTCTATT 179
Db |||||
Qy 241 TCTGCCCTACTTCTTTCCCTTCTGCTTCTGCTACTGCTACTACAAAATAGTCATTTGCAATG 300
Db |||||
Qy 178 TCTGCCCTACTTCTTTCCCTTCTGCTTCTGCTACTGCTACTACAAAATAGTCATTTGCAATG 119
Db |||||
Qy 301 GTGAGGCCCGCAATTAGGGAAAAGAAGCTCTGGAAGCCCACTTTGCGCATCTCTACACTGG 360
Db |||||
Qy 118 GTGAGGCCCGCAATTAGGGAAAAGAAGCTCTGGAAGCCCACTTTGCGCATCTCTACACTGG 59
Db |||||
Qy 361 TCCAGGTCTCTTCAATATTTTGTCCACAGCGAGAGGCTCTTTTGTATTTTCC 411
Db |||||
58 TCCAGGTCTCTTCAATATTTTGTCCACAGCGAGAGGCTCTTTTGTATTTTCC 8

RESULT 26
AAH35326/c
ID AAH35326 standard; cDNA; 632 BP.
XX
AC AAH35326;
XX
DT 03-SEP-2001 (first entry)
XX
DE Human colon cancer antigen encoding cDNA SEQ ID NO:2408.
XX
KW Human; colon cancer; colon cancer antigen; diagnosis; detection;
XX colorectal carcinoma; Chromosome 1; ss.
XX
OS Homo sapiens.
XX
PN WO200122920-A2.
XX
PD 05-APR-2001.
XX
PF 28-SEP-2000; 2000WO-US026524.
XX
PR 29-SEP-1999; 99US-0157137P.
XX
PR 03-NOV-1999; 99US-0163280P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Barash SC, Birse CE, Rosen CA;
XX
DR WPI; 2001-235357/24.
XX
DR P-PSDB; AAG75921.
XX
PT Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
XX useful for preventing, diagnosing and/or treating colorectal cancers.
PS Claim 1; Page 3960; 9803pp; English.
XX
CC AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
XX cancer-associated nucleic acid molecules (N) and proteins (P), where the
XX proteins are collectively known as colon cancer antigens. The colon

CC cancer antigens have cytostatic activity and can be used in gene therapy
 CC and vaccine production. N and P may be used in the prevention, diagnosis
 CC and treatment of diseases associated with inappropriate P expression. For
 CC example, N and P may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of P by expressing inactive proteins or to
 CC supplement the patients own production of P. Additionally, N may be used
 CC to produce the colon cancer-associated Ps, by inserting the nucleic acids
 CC into a host cell and culturing the cell to express the proteins. N and P
 CC can be used in the prevention, diagnosis and treatment of colorectal
 CC carcinomas and cancers. AAH37196 to AAH37204 and AAB77789 represent
 CC sequences used in the exemplification of the present invention. N.B.
 CC Pages 666 to 682 and page 7053 of the sequence listing were missing at
 CC time of publication, meaning no sequences are present for SEQ ID NO:1027
 CC to 1052, 7921 and 7922

XX SQ Sequence 632 BP; 191 A; 139 C; 137 G; 146 T; 0 U; 19 Other;

Query Match 33.0%; Score 396.2; DB 4; Length 632;
 Best Local Similarity 95.7%; Pred. No. 5.5e-90;
 Matches 424; Conservative 0; Mismatches 16; Indels 3; Gaps 2;

Qy 1 GGAACTAAAGAACTTTATTATTGAGGCAAGGGATGCAACAAATCAAAAAATCAA 60
 Db 512 GGAATAAAAGAACTTTATTATTGAGGCAAGGGATGCAACCAATNCAAAAAATCAA 453
 Qy 61 AAGCTTATCTGGTATTAACTTTCTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 120
 Db 452 AAGCTTATCTGGTATTAACTTTCTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 393
 Qy 121 TTTACATTGGT--AAGTGTCTGAT--CTGCTCATGAAATCCTTCTATGGGGGAAGCTGT 177
 Db 392 TTTACATTGGTNAAGTGTCTGNTTNGGTCCNTAANTCCTTNTATGGGGNAANTGT 333
 Qy 178 GGGGCAATTCCTTAAGGACCTTTTGGGCAACTCTTATCAGGAGGAGCGAACTGCTC 237
 Db 332 GGGGCAATTCCTTAAGGACCTTTTGGGCAACTCTTATCAGGAGGAGCGAACTGCTC 273
 Qy 238 ATTTCTGCTACTTCTTTCCCTTCTGCTTCTATGCTACTACAAATAGTCATTGCATGCA 297
 Db 272 ATTTCTGCTACTTCTTTCCCTTCTGCTTCTATGCTACTACAAATAGTCATTGCATGCA 213
 Qy 298 ATGTGAGGCGCCCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACAC 357
 Db 212 ATGTGAGGCGCCCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACAC 153
 Qy 358 TGGTCCAGGTCCTTCATTATTTCCTCCACAGAGGCTTTTTCATTTCCTCAAAAT 417
 Db 152 TGGTCCAGGTCCTTCATTATTTCCTCCACAGAGGCTTTTTCATTTCCTCAAAAT 93
 Qy 418 CCAGGGAACCTCTTTTCCATGAG 440
 Db 92 CCAGGGAACCTCTTTTCCATGAG 70

RESULT 27
 ADK11672/c
 ID ADK11672 standard; DNA; 350 BP.

XX AC ADK11672;

XX DT 06-MAY-2004 (first entry)

XX DE Breast cancer differentially expressed gene product #78.

XX KW ds; cytostatic; gene therapy; DKFZp561l133 activity inhibitor;
 XX KW breast cancer; differential expression.

XX OS Homo sapiens.

XX PN W02003057926-A1.

XX PD 17-JUL-2003.

XX 08-JAN-2003; 2003WO-US000657.
 XX PF
 XX PR 08-JAN-2002; 2002US-0345637P.
 XX PA (CHIR) CHIRON CORP.
 XX PI Hansen R;
 XX PI WPI; 2003-577534/54.
 XX DR
 XX PT Inhibiting a cancerous phenotype of a cell, useful for treating breast
 XX cancer comprises contacting a cancerous mammalian cell with an agent for
 XX inhibition of DKFZp561l133 activity.
 XX PS Claim 30; SEQ ID NO 78; 257pp; English.

XX CC The invention relates to a method of inhibiting a cancerous phenotype of
 XX a cell comprises contacting a cancerous mammalian cell with an agent for
 XX inhibition of DKFZp561l133 activity. The methods are useful for treating
 XX cancer, e.g. breast cancer. This sequence represents a gene product which
 XX is differentially expressed in breast cancer cells. The sequence can be
 XX used in the method of the invention.

XX SQ Sequence 350 BP; 96 A; 94 C; 84 G; 76 T; 0 U; 0 Other;

Query Match 29.0%; Score 347.4; DB 10; Length 350;
 Best Local Similarity 99.7%; Pred. No. 9.9e-78;
 Matches 348; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 273 TACTACAAAATAGTCATTTGTCATGCAATGCTGAGGCCCGCAATTAGGAAAAGAGCTCTG 332
 Db 350 TACTACAAAATAGTCATTTGTCATGCAATGCTGAGGCCCGCAATTAGGAAAAGAGCTCTG 291
 Qy 333 GAAGCCCACTTTGCCATCTCTACACTGCTCCAGTCTCTTTCATTTTGTCCACAGCCAG 392
 Db 290 GAAGCCCACTTTGCCATCTCTACACTGCTCCAGTCTCTTTCATTTTGTCCACAGCCAG 231
 Qy 393 AGGCTCTTTTGTATTTTCCAAAATCCAGGAACTCTCTTTTCCATGAGTACTCTCAGGTC 452
 Db 230 AGGCTCTTTTGTATTTTCCAAAATCCAGGAACTCTCTTTTCCATGAGTACTCTCAGGTC 171
 Qy 453 CTCTTTTGTAAAGTAGCTTTATCCCGAGCGAAATTTGTGAAATGTAAACATCATGGTTTC 512
 Db 170 CTCTTTTGTAAAGTAGCTTTATCCCGAGCGAAATTTGTGAAATGTAAACATCATGGTTTC 111
 Qy 513 CATGGCGTGTTCCTCATTTGAGATGCGCATTTTGTGTCGTCGTTGAAGCCTTGGCCGAGGC 572
 Db 110 CATGGCGTGTTCCTCATTTGAGATGCGCATTTTGTGTCGTCGTTGAAGCCTTGGCCGAGGC 51
 Qy 573 GCGGCGGACGCTGGGCGAGCTGGGCGAGCTGGACGCGGGGCGGAGAGGC 621
 Db 50 GCGGCGGACGCTGGGCGAGCTGGGCGAGCTGGACGCGGGGCGGAGAGGC 2

RESULT 28
 ABI99809/c
 ID ABI99809 standard; cDNA; 600 BP.

XX AC ABI99809;

XX DT 07-MAR-2002 (first entry)

XX DE Mouse ischaemic condition related cDNA sequence SEQ ID NO:919.

XX KW Mouse; ischaemia; compressive ischaemia; occlusive ischaemia;
 XX KW vasospastic ischaemia; ischaemic condition; ischaemic disease; ss.

XX OS Mus musculus.

XX PN W0200188188-A2.

XX PD 22-NOV-2001.


```
Db 101 GTTCCATTGAGATGGCAATTTGGTGTGTCGTTGAAGCCCTTGGCCGAGCGCGGGA 42
Qy 581 CGCTGGGCGAGTGGGCGGAGCTGGACGCGGCGGCGGAGAGGC 621
Db 41 CGCTGGGCGAGTGGGCGGAGCTGGACGCGGCGGCGGAGAGGC 1

RESULT 30
AAA46561/c
ID AAA46561 standard; cdna; 600 BP.
XX
AC AAA46561;
XX
XX 25-SEP-2000 (first entry)
XX
DE CDNA sequence encoding a potassium channel interactor polypeptide.
XX
XX Potassium channel interactor; PCIP; potassium channel; epilepsy;
KW spinocerebellar ataxia; nervous system disorder; cardiovascular disorder;
KW transient outward current; ss.
XX
OS Rattus sp.
XX
FH Key Location/Qualifiers
FT CDS 52..339
FT FT /*tag= a
FT FT /product= "potassium channel interactor"
XX
XX WO200031133-A2.
XX
XX 02-JUN-2000.
XX
XX 19-NOV-1999; 99US-0027428.
XX
XX 20-NOV-1998; 98US-0109333P.
PR 25-NOV-1998; 98US-0110033P.
PR 30-NOV-1998; 98US-0110277P.
PR 23-APR-1999; 99US-00298731.
PR 09-JUL-1999; 99US-00350614.
PR 09-JUL-1999; 99US-00350874.
PR 21-SEP-1999; 99US-00399913.
PR 21-SEP-1999; 99US-00400492.
XX
XX (MILL-) MILLENNIUM PHARM INC.
PA (AMHP) AMERICAN HOME PROD CORP.
XX
XX Rhodes K, Betty M, Ling H, An W;
PI
XX
XX WPI; 2000-400043/34.
DR P-PSDB; AAY93492.
XX
XX New polynucleotide with homology to the sequence encoding phosphate
PT channel interacting protein useful in the treatment of e.g. epilepsy and
PT spinocerebellar ataxia.
XX
PS Disclosure; Fig 32; 306pp; English.
XX
XX The present sequence encodes a potassium channel interactor protein
CC (PCIP). The PCIP polypeptides bind to a potassium channel, modulate the
CC activity of a potassium channel protein, and/or modulate a potassium
CC channel mediated activity in a cell. The polynucleotides and polypeptides
CC are useful in the treatment of epilepsy, and spinocerebellar ataxia, as
CC well as nervous system related disorders and cardiovascular disorders
CC associated with abnormal transient outward currents. They are also useful
CC for identifying compounds which can bind to and modulate the expression
CC and function of the PCIP nucleic acid molecules, and proteins
XX
SQ Sequence 600 BP; 193 A; 131 C; 137 G; 139 T; 0 U; 0 Other;

Query Match 27.5%; Score 329.8; DB 3; Length 600;
Best Local Similarity 77.8%; Pred. No. 3.6e-73;
Matches 458; Conservative 0; Mismatches 107; Indels 24; Gaps 4;
```

```
Qy 7 AAAAAAGAACTTTATTTATTTGAGGGCAAGGGGATGCAAAACAATACAAAAATCAAAAGCTT 66
Db 569 AAAAAAGAACTTTCTTTATTTGAGGGCAACCGGATGCAAAACAATATAAAATCGAAAGCTC 510
Qy 67 ATCTGGTAT---TTAACTTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 122
Db 509 CTCTGTCATTGGATTAACATTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 450
Qy 123 TACATTTGCTAAAGTGTCTCTGATCTGCTCATGAAATCTCTATATGGGGGAAAGCTGTGGGGC 182
Db 449 CACATTTCTTAAGGTCCTGATCTGCTCA-----CAGNAAGCAGTGGGGC 405
Qy 183 AGATTCCTTAAGGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCGCAACTGCTCATTTTC 242
Db 404 AGATTCCTCAGTTGACCCCATGGGAGAGGACGCATCAAGGTGTGGGTACCAAGGC-----T 349
Qy 243 TGCTACTTTCTTCCCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 302
Db 348 CCAGTTGGCCTACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 289
Qy 303 GAGGCCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTTGCCATCTCTACACTGGTC 362
Db 288 GAGGCCGCACTAGTATAGAAAGCTCTGGAAGCCCACTTTTGCCATCTCTGCGACTGGTC 229
Qy 363 CAGTCTCTTCAATTATTTGTCCACAGCCAGAGGTCCTTTTGTGATTTTCCAAAAATCCAGG 422
Db 228 CAGTCTCTTCAATTATTTGTCCACAGCCAGAGGTCCTTTTGTGATTTTCCAAAAATCCAGG 169
Qy 423 GAATCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTGTGTAAGTAGCTTTATCCCGCAGC 482
Db 168 GAATCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTGTGTAAGTAGCTTTATCCCGCAGC 109
Qy 483 GAATTTGTGAAATGTAACATCATGTTTTCATGGCGTGTTCATTTTGAGATGCAATTTT 542
Db 108 AACCTGTGAATGTAAGCATCATGGTTTCATGGCATGCTCCATTTTGGATGCGATTTT 49
Qy 543 GGTGTGTCCTGTTGAAGCCTTGGCCGAGGCGCGCGACGCTGGGCGAG 591
Db 48 GNAG-AATCTGTTGAAACCTGGGCGCTGAGGCGCTGAGTCTTTTGGGAAG 1

RESULT 31
ABK72684/c
ID ABK72684 standard; cdna; 600 BP.
XX
XX AC ABK72684;
XX
XX 13-AUG-2002 (first entry)
XX
XX DNA encoding rat potassium channel interacting protein (PCIP) #13.
XX
XX Human; rat; mouse; monkey; potassium channel interacting protein; PCIP;
KW central nervous system disorder; epilepsy; spinocerebellar ataxia; gene;
KW cardiovascular disorder; amnesia; Alzheimer's disease; memory loss; ss;
KW affective disorder; sleep disorder; neurodegenerative disorder; stroke;
KW depression; Parkinson's disease; multiple sclerosis; migraine; angina;
KW psychiatric disorder; neurological disorder; arteriosclerosis;
KW retinosis; heart failure; idiopathic cardiomyopathy; gene therapy;
KW myocardial infarction.
XX
XX Rattus sp.
OS
XX WO200226984-A2.
XX
XX 04-APR-2002.
XX
XX 27-SEP-2001; 2001WO-US030463.
XX
XX 27-SEP-2000; 2000US-00670756.
PR 31-OCT-2000; 2000US-00703094.
XX
XX (MILL-) MILLENNIUM PHARM INC.
PA
```


XX Rhodes K, Betty M, Ling H, An W;
XX WPI; 2002-416482/44.
DR P-PSDB; ABG60611.
XX
XX New isolated potassium channel interactor polypeptide, useful for
PT treating central nervous system disorder, epilepsy, spinocerebellar
PT ataxia, cardiovascular disorder, and nervous system related disorders.
XX
XX Example 21; Fig 32; 259pp; English.
XX
XX The invention relates to an isolated potassium channel interactor protein
CC (PCIP) and the polynucleotide encoding it. The DNA and protein sequences
CC are useful for treating potassium channel associated disorders such as
CC central nervous system (CNS) disorders, epilepsy, spinocerebellar ataxia,
CC cardiovascular disorders, amnesia, Alzheimer's related memory loss,
CC affective disorders, sleep disorders, neurodegenerative disorders such as
CC Alzheimer's disease, Parkinson's disease and multiple sclerosis,
CC psychiatric disorders such as depression, neurological disorders such as
CC migraine and stroke, arteriosclerosis, restenosis, heart failure, angina,
CC idiopathic cardiomyopathy and myocardial infarction. This sequence
CC represents cDNA encoding a PCIP of the invention
XX
XX SQ Sequence 600 BP; 193 A; 131 C; 137 G; 139 T; 0 U; 0 Other;
Query Match 27.5%; Score 329.8; DB 6; Length 600;
Best Local Similarity 77.8%; Pred. No. 3.6e-73;
Matches 458; Conservative 0; Mismatches 107; Indels 24; Gaps 4;
Qy 7 AAAAAAGAACCTTTATTATGAGGCAAGGGATGCAAAACAATACAAAAATCAAAAGCTT 66
Db 569 AAAAAAGACTTCTTTATTGAGGCAACCGATGCAAAACAATATAAACTCGAAAGCTC 510
Qy 67 ATCTGGTAT-----TTACTTTTCTTCTCTGCTTGTCAAAAGAGATTGATTTT 122
Db 509 CTCTGTCATGGATTAACTTTTCTCTGCTTGTGCAAAATGAGTTGGATGTTATTTG 450
Qy 123 TACATTTGCTAAGTGCTCTGATCTCATGAATCCTTCTATGGGGGAAGCTGTGGGC 182
Db 449 CACATTTCTNAGGCTCTGATCTCA-----CAGGAAGCAGTGGGC 405
Qy 183 AGATTCTTTAGCGACCTTTTGGACAACCTTTATCAGGGAGGAGCGCACTGCTCAATTC 242
Db 404 AGATTCTCTAGTGAACCCATGGAGAGGAGCGCATCAAGTGTGGTACCAGGC-----T 349
Qy 243 TGCCTACTTCTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATGATGCAATGTT 302
Db 348 CCAGTTGGCCTTACTTCTTCTGCTTCTCATGTGTACTACAAAATAGTCAATGCAATGAT 289
Qy 303 GAGCCCGCAATTAGGGAAGAAGCTCTGAAGCCCACTTTGCACTCTCTACACTGGTC 362
Db 288 GAGCCCGCCTAGTGTAGTAAGAAGCTCTGGAAGCCCACTTTTCCATCTGGCACTGGTC 229
Qy 363 CAGTCTCTTCAATTTTGTCCACAGCAGAGGGTCTTTTGTGATTTTCCAAAAATCCAGG 422
Db 228 CAGTCTTCAATTTTGTCCACAGCAGAGGGTCTTTTGTGATTTTCCAAAAATCCAGG 169
Qy 423 GAATCTCTTTTCCATAGTACTCTCAGTCTCTCTTGTGTTAAGTAGCCTTTATCCCGAG 482
Db 168 GAACTCCCTTTCCATAGCACTCTCAGTCTCTCTTGTGTTAAGTAGCCTTTATCCCGAG 109
Qy 483 GAATTTGTAATGAATCAATCATGTTTTCATGGCGTGTTCATTTGAGATGCAATTTT 542
Db 108 AAACCTGTGAATGTAGCATCATGGTTTTCATGGCATGCTTCCATTTGGGATGCAATTT 49
Qy 543 GGTGTGTCTTCCATGAGCTTGGCGGCGCGCGGCGGACGCTGGCGGAG 591
Db 48 GAAG-AACTCTGTTGAACCTGGGCGCTGAGCGCTGCAGTCTTTGGAG 1

ID ABK63467 standard; cDNA; 573 BP.
XX
AC ABK63467;
XX
DT 18-JUN-2002 (first entry)
XX
DE Rat sequence differentially expressed in response to a hepatotoxin #1374.
XX
DE Rat; ss; hepatotoxin; expressed sequence tag; EST; drug screening;
KW differential expression; centrilobular necrosis; steatosis.
XX
XX Rattus norvegicus.
OS
XX WO200210453-A2.
PN
XX 07-FEB-2002.
PD
XX 30-JUL-2001; 2001WO-US023872.
PF
XX 31-JUL-2000; 2000US-0222040P.
PR
PR 02-NOV-2000; 2000US-0244880P.
PR
PR 11-MAY-2001; 2001US-0290029P.
PR
PR 15-MAY-2001; 2001US-0290645P.
PR
PR 22-MAY-2001; 2001US-0292336P.
PR
PR 06-JUN-2001; 2001US-0295798P.
PR
PR 13-JUN-2001; 2001US-0297457P.
PR
PR 19-JUN-2001; 2001US-0298884P.
PR
PR 09-JUL-2001; 2001US-0303459P.
XX
XX (GENE-) GENE LOGIC INC.
PA
XX Mendrick D, Porter MW, Johnson KR, Castle AL, Elashoff MR;
PI
XX WPI; 2002-241625/29.
DR
XX
XX Predicting toxic effects of compounds or the progression of these toxic
PT effects by determining the changes in gene expression in tissues or cells
PT exposed to the toxin and comparing these to gene expression in unexposed
PT tissues or cells.
XX
XX Claim 1; SEQ ID NO 1374; 239pp; English.
XX
CC The invention relates to methods for predicting toxic effects of
CC compounds or the progression of these toxic effects by determining the
CC global changes in gene expression in tissues or cells exposed to the
CC toxin and comparing these to gene expression in unexposed tissues or
CC cells. Also included are methods of predicting at least one toxic effect
CC of a compound or progression of a toxic effect, preferably the
CC hepatotoxicity of a compound, comprising detecting the level of
CC expression in a tissue or cell sample exposed to the compound of two or
CC more genes listed in the specification, where differential expression of
CC the genes is indicative of at least one toxic effect or progression. The
CC method can also be used to identify an agent which modulates the toxic
CC response and predict cellular pathways that a compound modulates in a
CC support. The methods utilise a set of at least two probes (on a solid
CC specifically hybridises to a gene listed in the specification, a computer
CC system comprising a database containing information identifying the
CC expression level in a tissue or cell sample exposed to a hepatotoxin of a
CC set of genes comprising at least two genes listed in the specification,
CC and a user interface to view the information used to present information
CC identifying the expression level in a tissue or cell of at least one gene
CC listed in the specification. The method is useful for elucidating global
CC changes in gene expression and for identifying toxicity markers in
CC tissues or cell exposed to a known toxin. The genes may be used as
CC toxicity markers in drug screening and toxicity assays. The genes and
CC gene expression information may be used as diagnostic markers for the
CC prediction or identification of the physiological state of tissue or cell
CC sample that has been exposed to a compound or agent. Hepatotoxicity is
CC characterised by centrilobular necrosis and steatosis. The present
CC sequence is an expressed sequence tag (EST) or cDNA derived from a gene
CC which is differentially expressed in response to a hepatotoxic agent
XX

PR 10-JUL-2001; 2001US-0303807P.
 PR 10-JUL-2001; 2001US-0303808P.
 PR 10-JUL-2001; 2001US-0303810P.
 PR 28-AUG-2001; 2001US-0315047P.
 PR 27-SEP-2001; 2001US-0324928P.
 PR 22-OCT-2001; 2001US-0330462P.
 PR 01-NOV-2001; 2001US-0330867P.
 PR 21-NOV-2001; 2001US-0331805P.
 PR 06-DEC-2001; 2001US-0336114P.
 PR 19-DEC-2001; 2001US-0340873P.
 PR 21-FEB-2002; 2002US-0357843P.
 PR 21-FEB-2002; 2002US-0357844P.
 PR 15-MAR-2002; 2002US-0364113P.
 PR 08-APR-2002; 2002US-0370144P.
 PR 08-APR-2002; 2002US-0370206P.
 PR 17-APR-2002; 2002US-0370247P.
 PR 21-APR-2002; 2002US-0372794P.
 PR 21-APR-2002; 2002US-0371679P.
 XX (GENE-) GENE LOGIC INC.
 PA Mendrick D, Porter M, Johnson K, Higgs B, Castle A, Elashoff M;
 XX WPI; 2003-148464/14.
 XX
 XX Predicting at least one toxic effect of a compound, useful for toxicity
 PT modeling, comprises preparing a gene expression profile of a tissue or
 PT cell sample exposed to the compound, and comparing the gene expression
 PT profile to a database.
 XX
 XX Example 4; Page; 446pp; English.
 XX
 XX The invention relates to a novel method of predicting at least one toxic
 CC effect of a compound. The method comprises a gene expression profile of a
 CC tissue or cell sample exposed to the compound, and comparing the gene or
 CC expression profile to a database comprising at least part of the data or
 CC information given in the specification. The methods are useful for
 CC predicting at least one toxic effect of a compound, predicting the
 CC progression of a toxic effect of a compound, predicting the renal
 CC toxicity of a compound, or identifying toxicity markers in tissues or
 CC cells exposed to known renal toxin. The genes are useful as toxicity
 CC markers in drug screening and toxicity assays, in monitoring disease or
 CC physiological states, or disease progression. This polynucleotide
 CC represents a rat DNA sequence relating to the toxic effect database
 CC described in the specification. NOTE: The sequence data for this patent
 CC did not form part of the printed specification, but was obtained in
 CC electronic format directly from the World Intellectual Property
 CC Organization
 XX
 XX Sequence 573 BP; 171 A; 128 C; 137 G; 137 T; 0 U; 0 Other;
 SQ
 Query Match 27.5%; Score 329.2; DB 10; Length 573;
 Best Local Similarity 78.2%; Pred. No. 4.9e-73;
 Matches 455; Conservative 0; Mismatches 103; Indels 24; Gaps 4;
 QY 7 AAAAAAGAACTTTATTTATTGAGGCGAAGGGGATGCAACAATAACAAAAATCAAAAGCTT 66
 DB 563 AAAAAAGAACTTTCTTTATTGAGGCAACCGGATGCAACAATAATAAACTCGAAAGCTC 504
 QY 67 ATCTGGTAT-----TTAACTTTTCTTCTGCTTGTCAAAATGAGATTAGATTATTTT 122
 DB 503 CTCTGTCATTGGATTAACTTTTCTTCTGCTTGTCAAAATGAGATTAGATTATTTT 444
 QY 123 TACATTTGCTAAGTGCTCTGCTCATGAAATCCTTCTATGGGGGAGCTGTGGGC 182
 DB 443 CACATTTCTTAAAGGCTCTGATCTGCTCA-----CAGAAAGCAGTGGGC 399
 QY 183 AGATTCTTAAAGCAGCTTTGAGCACTTTATCAGGAGGAGCGAATGCTCATTTTC 242
 DB 398 AGATTCTCAGTTGACCCCATGGAGAGGAGCGATCAGGTGTGGTACCAAGGC-----T 343
 QY 243 TGCCCTACTTCTTTCCCTTCTGCTTCTCATGTGATCTACAAAAATAGTTCATGTCATGCAATGGT 302

DB 342 CCAGTTGGCCCTACTTCTTCTGCTTCTATGTACTACAAAAATAGTTCATTTGCAATGAT 283
 QY 303 GAGGCCCGCAATTAGGAAAAAGAGCTCTGGAAGCCCACTTTTGGCATCTCTACACTGGTC 362
 DB 282 GAGGCCCGCACTAGTAGTAAAGCTCTGGAAGCCCACTTTTCCATCTCGGCACTGGTC 223
 QY 363 CAGGTCTTTCATTATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCAGG 422
 DB 222 CAGGTCTTTCATTATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAAATCCAGG 163
 QY 423 GAAGTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGAAGTAGTTCCTTTTCCCGCAGC 482
 DB 162 GAAGTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTTGAAGTAGTTCCTTTTCCCGCAGC 103
 QY 483 GAATTTGTGAAATGTAAACATCATGTTTCCATGGGCTGTTCCATTTGAGATGGCATTTT 542
 DB 102 AAACCTGTGAAATGTAAAGCATCATGTTTCCATGGGATGCTCCATTTGGATGGCATTTT 43
 QY 543 GGTGTGGTCCGTTGAAGCCCTTGCCGAGCGCGCGGACGCT 584
 DB 42 GAAG-AATCTGTTGAAACCTGGGCGCTGAGCGCGCTGCAGTCT 2

RESULT 36

ABX13102/c

ID ABX13102 standard; cDNA; 573 BP.

AC ABX13102;

XX

DT 10-MAY-2003 (first entry)

XX

DE Rat cDNA encoding small calcium binding protein p11.

XX

KW Rat; ss; gene: voltage gated sodium channel; VGSC; Nav1.8; p11;

KW small calcium binding protein; analgesia; chronic pain; osteoarthritis;

KW rheumatoid arthritis; neuropathic pain; cancer pain;

KW tri geminal neuralgia; hyperalgesia; inflammatory pain; nociceptive pain;

KW tabes dorsalis; phantom limb pain; spinal cord injury pain; central pain;

KW post-herpetic pain; HIV pain; non-cardiac chest pain;

KW irritable bowel syndrome; bowel disorder.

XX Rattus norvegicus.

OS

XX

FH Key Location/Qualifiers

FT CDS 46..336

FT /*tag= a

FT /product= "p11"

XX

XX WO2003016917-A2.

XX

XX 27-FEB-2003.

XX

XX 20-AUG-2002; 2002WO-GB003852.

XX

XX 20-AUG-2001; 2001GB-00020238.

XX

XX (UNLO) UNIV COLLEGE LONDON.

XX

XX Okuse K, Baker M, Poon L, Wood JN, Malik-Hall M;

XX

XX WPI; 2003-278589/27.

XX

XX P-PSDB; ABG76192.

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Identifying a voltage gated sodium channel (VGSC) modulator for producing analgesia and for relieving chronic pain, e.g. osteoarthritis or HIV pain, comprises bringing into contact a VGSC, a p11 peptide and a test compound.
 Disclosure; Page 84-85; 114pp; English.
 The invention relates to identifying a modulator of a voltage gated sodium channel (VGSC) e.g. Nav1.8 comprising: (a) bringing into contact a


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||||| ||| ||||||| ||||||| ||||||| ||| ||||||| ||||||| |||||||
Db 503 CTCGTGCTATGGAATTAACCTTTTCTCTCTCTGTCGAAATGGAGTGGATGTTATTTG 444
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 123 TACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGAAGCTGTGGGC 182
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 443 CACATTTCTTAAGGCTCTGATCTGCTCA-----CAGGAAGCATGGGGC 399
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 183 AGATTCTTAAAGCACCTTTTGGGACAACTTTATCAGGGAGAGCGAAGCTGCTCATTTTC 242
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 398 AGATTCTCTCAGTTGACCCCATGGGAGAGGAGCGCATCAAGGTGTGGTACCAGGGC---T 343
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 243 TGCCTACTCTCTTCCCTTCTGCTTCTCATGTGCTGCTACTACAAAATAGTCATTGCGATGCAATGGT 302
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 342 CCAGTTGGCCCTACTTCTCTCTCTCATGTGCTGCTACTACAAAATAGTCATTGCGATGCAATGGT 283
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 303 GAGGCCCGCAATAGGGAAGAAAGAGCTCTGGAAGCCCACTTTTGCCATCTCTACACTGGTC 362
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 282 GAGCCCCGCCACTAGTAGATAAGAAAGCTCTGGAAGCCCACTTTTCCATCTCGGCACTGGTC 223
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 363 CAGTCTCTTATTTATTTGTCACAGCCAGAGGCTCTTTTGTGATTTTCCAAAATCCAGG 422
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 222 CAGGTCTTTTCAATATTTTGTCCACAGCCAGAGGGTCTCTTTTGATTTTCCAAAATCCAGG 163
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 423 GAACCTCTTTTCCATGAGTACTCTCAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 482
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 162 GAACCTCTTTTCCATGAGTACTCTCAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 103
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 483 GAAATTTGTAAATGTAACATCATGTTTTCATGCGCTGTTTCCATTTGAGATGCAATTTT 542
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 102 AAACCTGTGAATGTAAGCATCATGTTTTCATGCGCATGTTCCATTTGGGATGCAATTTT 43
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 543 GGTGTGTGCTGTTGAAGCTTGGCCGAGGCGCGCGGACGCT 584
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 42 GAAG-AAATCTGTTGAAACCTGGGCGCTGAGGCGCTGCGAGTCT 2
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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RESULT 38

AAS57410/c
ID AAS57410 standard; cDNA; 318 BP.

XX AC AAS57410;

XX DT 13-FEB-2002 (first entry)

XX cDNA #86 encoding portion of a human colon tumour protein.

XX Human; colon tumour protein; colon cancer; gene therapy; cytostatic; ss.

XX OS Homo sapiens.

XX PN W0200173027-A2.

XX PD 04-OCT-2001.

XX PF 22-MAR-2001; 2001WO-US009246.

XX PR 24-MAR-2000; 2000US-0191597P.

XX PR 04-MAY-2000; 2000US-0202024P.

XX PR 05-MAY-2000; 2000US-0202189P.

XX XX (CORI-) CORIXA CORP.

XX XX Meagher MJ, Xu J, King GE;

XX XX WPI; 2001-611627/70.

XX XX New colon tumor proteins and related nucleic acid, useful for treatment,

XX XX prevention, diagnosis and monitoring of cancer.

XX XX Claim 4; Page 75; 299pp; English.

XX XX Th present invention relates to the isolation of novel cDNA sequences

XX XX encoding for at least an immunogenic portion of human colon tumour

CC proteins. The sequences of the invention are useful in pharmaceutical
 CC compositions and vaccines for the prevention and treatment of cancers
 CC such as colon cancer. They are also useful for the diagnosis and
 CC monitoring of such cancers. Antibodies to the colon tumour proteins and
 CC antigen presenting cells that express polynucleotides encoding colon
 CC tumour proteins can be used to inhibit the development of cancers. T-
 CC cells that react specifically with colon tumour proteins are useful for
 CC removing tumour cells from samples (e.g. blood) and for cancer treatment.
 CC The polynucleotide sequences are also useful in gene therapy. AAS57325-
 CC AAS5880 represent the cDNA sequences of the invention that encode for
 CC portions of human colon tumour proteins

XX SQ Sequence 318 BP; 102 A; 67 C; 67 G; 82 T; 0 U; 0 Other;

Query Match 26.4%; Score 317; DB 4; Length 318;

Best Local Similarity 100.0%; Pred. No. 4.8e-70;

Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 35 GGGGATGCAAAACATACAAAATCAAAAAGCTTATCTGGTATTTAACTTTTCTTCTCTGC 94

Db 317 GGGGATGCAAAACATACAAAATCAAAAAGCTTATCTGGTATTTAACTTTTCTTCTCTGC 258

Qy 95 TTGTCAAAATGAGAGTTAGATTTTATTTTACATTTGCTAAAGTGTCTGATCTGCTCATGA 154

Db 257 TTGTCAAAATGAGAGTTAGATTTTATTTTACATTTGCTAAAGTGTCTGATCTGCTCATGA 198

Qy 155 AATCTCTTATGGGGGAAGCTGTGGGCGAGATTCCTTTAAGCGACCTTTTGGGACAACTCT 214

Db 197 AATCTCTTATGGGGGAAGCTGTGGGCGAGATTCCTTTAAGCGACCTTTTGGGACAACTCT 138

Qy 215 TATCAGGAGGAGGGAACCTGCTCATTTCTGCTTCTCTTCTCTTCTCTCTCTCTCTCTCTCT 274

Db 137 TATCAGGAGGAGGGAACCTGCTCATTTCTGCTTCTCTTCTCTCTCTCTCTCTCTCTCTCT 78

Qy 275 CTACAAAATAGTCATTGCTGATGCAATGCTGAGGCGCCGCAATTAGGGAAGAAAGCTCTGGA 334

Db 77 CTACAAAATAGTCATTGCTGATGCAATGCTGAGGCGCCGCAATTAGGGAAGAAAGCTCTGGA 18

Qy 335 AGCCCACTTTGCCATCT 351

Db 17 AGCCCACTTTGCCATCT 1

RESULT 39

AAC81810/c

ID AAC81810 standard; cDNA; 294 BP.

XX AC AAC81810;

XX DT 22-FEB-2001 (first entry)

XX DE Human S100A10 cDNA.

XX XX S100 protein; human; treatment; cardiomyopathy; cardiac insufficiency;

XX XX calcium-binding protein; calcium homeostasis; cardiac muscle;

XX XX pumping capacity; myocardial cell; systolic calcium ion release;

XX XX sarcoplasmic reticulum; cardiac disease; hypertension; rhythm disorder;

XX XX valve defect; ss.

XX OS Homo sapiens.

XX XX DE19915485-A1.

XX XX 19-OCT-2000.

XX XX 07-APR-1999; 99DE-01015485.

XX XX 07-APR-1999; 99DE-01015485.

XX XX (KATU/) KATUS H A.

XX XX (REMP/) REMPPIS A.

XX XX Katus HA, Remppis A;


```
XX WPI; 2000-673510/66.
DR P-PSDB; AAB45540.
XX
XX Composition containing S100 protein, corresponding nucleic acid or
PT vector, useful for treating cardiomyopathy and cardiac insufficiency.
XX
XX Claim 36; Page 17; 36pp; German.
XX
XX This invention describes a novel composition for treating primary or
CC secondary cardiomyopathy or cardiac insufficiency contains at least one
CC S100 protein (I) or nucleic acid (II) encoding (I), or their mutants or
CC fragments, or a gene transfer vector containing (II), optionally
CC formulated with auxiliaries and/or carriers. (II) are calcium-binding
CC proteins involved in calcium homeostasis, so their overexpression in
CC cardiac muscle will improve pumping capacity (and overall capacity) of
CC the heart. In cultured myocardial cells they increase the contraction and
CC relaxation rates associated with increased systolic calcium ion release
CC from the sarcoplasmic reticulum (SR) and calcium re-uptake by SR. (I) are
CC used to treat cardiomyopathy (CMP) where inherited or caused by
CC spontaneous mutations and ischemic CMP caused by arteriosclerosis,
CC dilative CMP caused by toxic/infectious disease, cardiac disease caused
CC by pulmonary and/or arterial hypertension, and structural disease caused
CC by rhythm disorders or valve defects, generally any condition associated
CC with reduced contractile force. Unlike calmodulin, which is expressed
CC ubiquitously, (I) show tissue-specific expression and treat the
CC underlying defect in the sarcoplasmic reticulum (SR) that causes cardiac
CC disease
XX
XX Sequence 294 BP; 96 A; 57 C; 72 G; 69 T; 0 U; 0 Other;
SQ
Query Match 24.5%; Score 294; DB 3; Length 294;
Best Local Similarity 100.0%; Pred. No. 3.1e-64;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 246 CTACTCTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATGGTGAG 305
DB 294 CTACTCTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATGGTGAG 235
QY 306 GCCCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTCGCATCTACACTGGTCCAG 365
DB 234 GCCCGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTCGCATCTACACTGGTCCAG 175
QY 366 GTCCCTTCATTATTGTCACAGCCAGAGGCTCTTTTGTGATTTCCAAAATCCAGGAA 425
DB 174 GTCCCTTCATTATTGTCACAGCCAGAGGCTCTTTTGTGATTTCCAAAATCCAGGAA 115
QY 426 CTCCTTTTCATGAGTACTCTCAGGTCCTCTTTGTTTAAGTAGCCTTTATCCCGAGCGAA 485
DB 114 CTCCTTTTCATGAGTACTCTCAGGTCCTCTTTGTTTAAGTAGCCTTTATCCCGAGCGAA 55
QY 486 TTTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTGAGATGGCAT 539
DB 54 TTTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTGAGATGGCAT 1
RESULT 40
ADA08452
ID ADA08452 standard; DNA; 291 BP.
XX
XX ADA08452;
XX
XX 06-NOV-2003 (first entry)
XX
XX Mammalian annexin II p11 subunit antisense polynucleotide.
XX
XX Anti-angiogenesis plasmin fragment; plasminogen; plasminogen activator;
KW plasmin reductase; reduced plasmin protein; anti-angiogenesis activity;
KW urokinase-type plasminogen activator; A61; annexin II heterotetramer;
KW annexin II p36 subunit; annexin II p11 subunit; thioredoxin;
KW protein disulphide isomerase; modulating angiogenesis; mammalian; ss.
XX
XX Mammalia.
OS
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XX US2003083234-A1.
PN
XX
XX 01-MAY-2003.
PD
XX
XX 26-NOV-2002; 2002US-00304287.
PF
XX
XX 28-NOV-2001; 2001US-0333866P.
PR
XX
XX (WAIS/) WAISMAN D.
PA (KWON/) KWON M.
XX
XX Waisman D, Kwon M;
PI
XX WPI; 2003-596985/56.
XX
XX Producing an anti-angiogenesis plasmin fragment, useful for modulating,
PT e.g. promoting or inhibiting angiogenesis, comprises contacting a
PT plasminogen polypeptide with a plasminogen activator and a plasmin
PT reductase.
XX
XX Claim 33; Page 12; 29pp; English.
XX
XX The present invention relates to a method for producing an anti-
CC angiogenesis plasmin fragment. The method comprises contacting a
CC plasminogen polypeptide with a plasminogen activator and a plasmin
CC reductase, where a reduced plasmin protein is produced and the anti-
CC angiogenesis plasmin fragment having anti-angiogenesis activity, is
CC released from the reduced plasmin protein. The plasminogen activator is
CC preferably a urokinase-type plasminogen activator. The angiogenesis
CC plasmin fragment is A61. The plasmin reductase is selected from annexin
CC II heterotetramer, annexin II p36 subunit, p11, thioredoxin, and protein
CC disulphide isomerase. The annexin II heterotetramer is associated with a
CC cell membrane. The method of the invention is useful for modulating (e.g.
CC promoting or inhibiting) angiogenesis. The present sequence represents
CC mammalian annexin II p11 subunit antisense polynucleotide.
XX
XX Sequence 291 BP; 68 A; 71 C; 57 G; 95 T; 0 U; 0 Other;
SQ
Query Match 24.3%; Score 291; DB 9; Length 291;
Best Local Similarity 100.0%; Pred. No. 1.8e-63;
Matches 291; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 249 CTTCCTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATGGTGAGGCC 308
DB 1 CTTCCTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCAATGGTGAGGCC 60
QY 309 CGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACATGGTCCAGGTC 368
DB 61 CGCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACATGGTCCAGGTC 120
QY 369 CTTTCATTATTTGTCACAGCCAGAGGCTCTTTTGTGATTTCCAAAATCCAGGGAATC 428
DB 121 CTTTCATTATTTGTCACAGCCAGAGGCTCTTTTGTGATTTCCAAAATCCAGGGAATC 180
QY 429 CTTTTCATGAGTACTCTCAGGTCCTCTTTGTTTAAGTAGCCTTTATCCCGAGCAATTT 488
DB 181 CTTTTCATGAGTACTCTCAGGTCCTCTTTGTTTAAGTAGCCTTTATCCCGAGCAATTT 240
QY 489 GTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTGAGATGGCAT 539
DB 241 GTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTGAGATGGCAT 291
RESULT 41
ADA08453/c
ID ADA08453 standard; DNA; 291 BP.
XX
XX ADA08453;
XX
XX 06-NOV-2003 (first entry)
XX
XX Mammalian annexin II p11 subunit sense polynucleotide.
XX
XX
```


QY 309 CGCAATTAGGAAAGAGCTCTGGAAGCCACATTTGCCATCTCTACACTGGTCCAGGTC 368
Db 61 CGCAATTAGGAAAGAGCTCTGGAAGCCACATTTGCCATCTCTACACTGGTCCAGGTC 120
QY 369 CTTCAATTATTTTGTCCACAGCCAGAGGCTCTTTTGTGATTTTCCAAAATCCAGGAACTC 428
Db 121 CTTCAATTATTTTGTCCACAGCCAGAGGCTCTTTTGTGATTTTCCAAAATCCAGGAACTC 180
QY 429 CTTTTCATGAGTACTCTCAGGCTCCTCTTTGTTAAGTAGCCTTTATCCCCAGCGAATTT 488
Db 181 CTTTTCATGAGTACTCTCAGGCTCCTCTTTGTTAAGTAGCCTTTATCCCCAGCGAATTT 240
QY 489 GTGAAATGTAACATCATGTTTCCATGGCGTGTCTTCCATTTGAGATGGCAT 539
Db 241 GTGAAATGTAACATCATGTTTCCATGGCGTGTCTTCCATTTGAGATGGCAT 291

RESULT 43
ADP67425/c
ID ADP67425 standard; cDNA; 291 BP.
XX
AC ADP67425;
XX
DT 23-SEP-2004 (first entry)
XX
DE Human p11 sense polynucleotide SEQ ID NO:6.
XX
KW p11; p11 activity modulator; plasminogen activation; cytostatic;
KW antisense therapy; cancer; tumour; tumour growth inhibition; gene; ss;
KW human.
XX
OS Homo sapiens.

XX
FH Key Location/Qualifiers
FT CDS 1..291
FT FT /*tag= a
FT FT /product= "p11"
XX
PN WO2004054517-A2.
XX
PD 01-JUL-2004.
XX
XX 12-DEC-2003; 2003WO-US040029.
XX
PR 13-DEC-2002; 2002US-0433140P.
XX
PA (MEDI-) MEDIOMICS LLC.
PA (WAIS/) WAISMAN D.
XX
PI Waisman D;
XX
XX WPI; 2004-487995/46.
DR P-PSDB; ADP67422.
XX
XX Composition useful for inhibiting growth of tumor in patient, modulates
PT activity of p11 protein and effects change in level of plasminogen
PT activation by a cell.
XX
XX Disclosure; SEQ ID NO 6; 140pp; English.

XX
CC The present invention describes a composition (I) which modulates the
CC activity of a p11 protein and effects a change in the level of
CC plasminogen activation by a cell. Also described: (i) making (M1) a
CC clonal cell line, which involves isolating a cell, then characterising
CC the activity of a protein produced by the cell or clonal progeny of the
CC cell, where the protein is involved in plasminogen activation; and (2) a
CC clonal cell line (II) useful in the identification of composition that
CC modulate p11 activity, where the clonal cell line is obtained by (M1).
CC (I) has cytostatic activity, and can be used in antisense therapy. (I) is
CC useful for modulating the activity of p11 which involves administering
CC (I) to a cell. The cell can be a human cancer cell, chosen from a HRI080
CC fibrosarcoma cell, a lNCaP prostate cancer cell and a CCL-22 colorectal
CC adenocarcinoma cell. (I) is also useful for reducing the development of

CC cancer in a patient e.g., mouse which involves administering (I) to a
CC cancer cell in the patient. (I) is useful for inhibiting the growth of
CC tumours or inhibiting tumour cell invasion in a patient, which involves
CC administering (I) to a cancer cell in the patient. (II) is useful for
CC identifying a composition that modulates p11 activity which involves
CC administering the composition to (ii) obtained by (M1), determining the
CC change in p11 activity of a cell of the clonal cell line relative to a
CC cell of a clonal cell line that had not received the composition, and
CC identifying the composition that produces a change in p11 activity. The
CC change in p11 activity is a change in the level of plasminogen activation
CC activity. The present sequence represents a human p11 sense
CC polynucleotide sequence, which is used in the exemplification of the
CC present invention.
XX
SQ Sequence 291 BP; 95 A; 57 C; 71 G; 68 T; 0 U; 0 Other;

Query Match 24.3%; Score 291; DB 12; Length 291;
Best Local Similarity 100.0%; Pred. No. 1.8e-63;
Matches 291; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 249 CTTCTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCATTCATGCAATGGTGAGGCC 308
Db 291 CTTCTTTCCCTTCTGCTTCATGTGTACTACAAAATAGTCATTCATGCAATGGTGAGGCC 232
QY 309 CGCAATTAGGAAAGAGCTCTGGAAGCCACATTTGCCATCTCTACACTGGTCCAGGTC 368
Db 231 CGCAATTAGGAAAGAGCTCTGGAAGCCACATTTGCCATCTCTACACTGGTCCAGGTC 172
QY 369 CTTCAATTATTTTGTCCACAGCCAGAGGCTCTTTTGTGATTTTCCAAAATCCAGGAACTC 428
Db 171 CTTCAATTATTTTGTCCACAGCCAGAGGCTCTTTTGTGATTTTCCAAAATCCAGGAACTC 112
QY 429 CTTTTCATGAGTACTCTCAGGCTCCTCTTTGTTAAGTAGCCTTTATCCCCAGCGAATTT 488
Db 111 CTTTTCATGAGTACTCTCAGGCTCCTCTTTGTTAAGTAGCCTTTATCCCCAGCGAATTT 52
QY 489 GTGAAATGTAACATCATGTTTCCATGGCGTGTCTTCCATTTGAGATGGCAT 539
Db 51 GTGAAATGTAACATCATGTTTCCATGGCGTGTCTTCCATTTGAGATGGCAT 1

RESULT 44
AAI10124
ID AAI10124 standard; DNA; 464 BP.
XX
AC AAI10124;
XX
DT 12-OCT-2001 (first entry)
XX
DE Probe #57 for gene expression analysis in human cervical cell sample.
XX
KW Probe; human; microarray; gene expression; cervical epithelial cell;
KW cervical cancer; ss.
XX
OS Homo sapiens.
XX
PN WO200157278-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US000670.
XX
PR 04-FEB-2000; 2000US-0180312P.
PR 26-MAY-2000; 2000US-0207456P.
PR 30-JUN-2000; 2000US-00608408.
PR 03-AUG-2000; 2000US-0062366.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
PA Penn SG, Hanzel DK, Chen W, Rank DR;
XX PI

```
XX DR WPI; 2001-488901/53.
XX PF Human genome-derived single exon nucleic acid probes useful for analyzing
XX PT gene expression in human cervical epithelial cells.
XX PS Claim 25; SEQ ID NO 57; 487bp; English.
XX CC The present invention relates to human single exon nucleic acid probes
XX CC (SENPs). The present sequence is one such probe. The SENPs are derived
XX CC from human HeLa cells. The SENPs can be used to produce a single exon
XX CC microarray, which can be used for measuring human gene expression in a
XX CC sample derived from human cervical epithelial cells. By measuring gene
XX CC expression, the probes are therefore useful in grading and/or staging of
XX CC diseases of the cervix, notably cervical cancer. Note: The sequence data
XX CC for this patent did not form part of the printed specification, but was
XX CC obtained in electronic format directly from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 464 BP; 105 A; 108 C; 101 G; 150 T; 0 U; 0 Other;
Query Match 22.8%; Score 273.8; DB 4; Length 464;
Best Local Similarity 78.3%; Pred. No. 4.9e-59;
Matches 367; Conservative 0; Mismatches 97; Indels 5; Gaps 3;
QY 46 CAATACAAAATCAAAAGCTTATCTGGTATTAACTTTCTCTCTGCTTGCAAAATGA 105
DB 1 CAATCCAAAGACCAAAAGCCTATTATTAAATTAAC-TTCCTTTCTTTGTTAGATGA 59
QY 106 GAGTTAGATTATTTTACATTTGCTAAGTGCTCTGATCTGCTCATGAATCCTTCTAT 165
DB 60 GATTGGATTGATGTCTGTTTCTTGCG--CCTGGTCTGCTCATGAAGCCTTCTAC 117
QY 166 GGGGGAAGCTGTGGGCGAGATTCTTAAGGACCCCTTTGGGACAACTCTTATCAGGAGG 225
DB 118 AGGGGGAAGCTGTGGGCGAGATTCTTAAGGACCCCTTTGGGACAACTCTTATCAGGAGG 176
QY 226 AGCGAACTGCTCAATTTCTGCTTCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTAT 285
DB 177 -AGTAATTGCTTAGTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTAT 235
QY 286 TCAATGTCATGCAATTTGTTGAGGCGCCGCAATTTAGGAAAAGAAAGCTCTGGAAGCCACATTG 345
DB 236 TTCTCCAAAATCAAGGAACCTCTTTCCCATGAGTACTTTTCCAGCCCTCTCTCATTTAG 405
QY 406 TAGCCTTTATCCCGGCAAAATCTGTGAACGTAACACACAGCGTTTCCA 514
DB 416 TAGCCTTTATCCCGGCAAAATCTGTGAACGTAACACACAGCGTTTCCA 464
RESULT 45
ABA51754
ID ABA51754 standard; DNA; 464 BP.
XX AC ABA51754;
XX AC ABA51754;
XX DT 01-FEB-2002 (first entry)
XX DE Human foetal liver single exon nucleic acid probe #59.
XX KW Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
XX OS Homo sapiens.
XX PN WO200157277-A2.
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XX 09-AUG-2001.
XX 30-JAN-2001; 2001WO-US000669.
XX 04-FEB-2000; 2000US-0180312P.
XX 26-MAY-2000; 2000US-0207456P.
XX 30-JUN-2000; 2000US-00608408.
XX 03-AUG-2000; 2000US-00632366.
XX 21-SEP-2000; 2000US-0234687P.
XX 27-SEP-2000; 2000US-0236359P.
XX 04-OCT-2000; 2000GB-00024263.
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX PA Penn SG, Hanzel DK, Chen W, Rank DR;
XX WIPI; 2001-483447/52.
XX Human genome-derived single exon nucleic acid probes useful for analyzing
XX PT gene expression in human fetal liver.
XX PS Claim 1; SEQ ID NO 59; 639pp + Sequence Listing; English.
XX CC The invention relates to a single exon nucleic acid probe for measuring
XX CC human gene expression in a sample derived from human foetal liver. The
XX CC single exon nucleic acid probes may be used for predicting, measuring and
XX CC displaying gene expression in samples derived from human fetal liver. The
XX CC present sequence is a single exon nucleic acid probe of the invention.
XX CC Note: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 464 BP; 105 A; 108 C; 101 G; 150 T; 0 U; 0 Other;
Query Match 22.8%; Score 273.8; DB 4; Length 464;
Best Local Similarity 78.3%; Pred. No. 4.9e-59;
Matches 367; Conservative 0; Mismatches 97; Indels 5; Gaps 3;
QY 46 CAATACAAAATCAAAAGCTTATCTGGTATTAACTTTCTCTCTGCTTGCAAAATGA 105
DB 1 CAATCCAAAGACCAAAAGCCTATTATTAAATTAAC-TTCCTTTCTTTGTTAGATGA 59
QY 106 GAGTTAGATTATTTTACATTTGCTAAGTGCTCTGATCTGCTCATGAATCCTTCTAT 165
DB 60 GATTGGATTGATGTCTGTTTCTTGCG--CCTGGTCTGCTCATGAAGCCTTCTAC 117
QY 166 GGGGGAAGCTGTGGGCGAGATTCTTAAGGACCCCTTTGGGACAACTCTTATCAGGAGG 225
DB 118 AGGGGGAAGCTGTGGGCGAGATTCTTAAGGACCCCTTTGGGACAACTCTTATCAGGAGG 176
QY 226 AGCGAACTGCTCAATTTCTGCTTCTCTTCTCTCTCTCTCTCTCTCTCTCTCTAT 285
DB 177 -AGTAATTGCTTAGTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTAT 235
QY 286 TCAATGTCATGCAATTTGTTGAGGCGCCGCAATTTAGGAAAAGAAAGCTCTGGAAGCCACATTG 345
DB 236 TTCTCCAAAATCAAGGAACCTCTTTCCCATGAGTACTTTTCCAGCCCTCTCTCATTTAG 405
QY 406 TAGCCTTTATCCCGGCAAAATCTGTGAACGTAACACACAGCGTTTCCA 514
DB 416 TAGCCTTTATCCCGGCAAAATCTGTGAACGTAACACACAGCGTTTCCA 464
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Job time : 684 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 17, 2005, 23:46:33 ; Search time 3771 Seconds
(without alignments)
12102.641 Million cell updates/sec

Title: US-10-735-577-16

Perfect score: 1199
Sequence: 1 ggaactaaaagaactta.....cgggcttcgcccccaccg 1199

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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1: gb_est1.*
2: gb_est2.*
3: gb_hc.*
4: gb_est3.*
5: gb_est4.*
6: gb_est5.*
7: gb_est6.*
8: gb_gsl1.*
9: gb_gsl2.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Length	DB ID	Description
C 1	694.8	57.9	753 4	BI827113 603077308
C 2	688.2	57.4	769 4	BG437145 602488791
C 3	687	57.3	883 6	CD389775 AGENCOURT
C 4	668	55.7	679 4	BM785208 K-EST0063
C 5	665	55.5	681 5	BUS21490 AGENCOURT
C 6	663	55.3	671 4	BG774775 602662641
C 7	658.8	54.9	912 2	BE729901 601564949
C 8	657	54.8	660 3	CR610742 full-len
C 9	657	54.8	660 5	CR610742 full-len
C 10	652.8	54.4	705 6	CD177393 AGENCOURT
C 11	652	54.4	670 5	BG646470 AGENCOURT
C 12	651.6	54.3	737 4	BG339527 602437371
C 13	648	54.0	663 4	BM541317 AGENCOURT
C 14	646.6	53.9	843 5	BUS94774 AGENCOURT
C 15	646.4	53.9	669 5	BUI183451 AGENCOURT
C 16	646.4	53.9	940 5	BG678300 AGENCOURT
C 17	645	53.8	681 4	BG332809 602430639
C 18	644	53.7	692 5	BUS02376 AGENCOURT
C 19	640.6	53.4	807 5	BUS02356 AGENCOURT
C 20	638	53.2	655 5	BQ073203 AGENCOURT
C 21	636.2	53.1	1125 4	BM549820 AGENCOURT
C 22	634.4	52.9	657 4	BI825167 603072039
C 23	634	52.9	645 2	BE378444 601236785
C 24	632	52.7	655 5	BQ050753 AGENCOURT

C 25	631.4	52.7	856 4	BG335520 602403994
C 26	630.8	52.6	666 6	CA431436 UI-H-FG1-
C 27	629	52.5	687 4	BM546362 AGENCOURT
C 28	628.6	52.4	938 2	BF686811 602140775
C 29	628.6	52.4	990 2	BE745512 601579889
C 30	628.4	52.4	674 4	BI858258 603384021
C 31	628.2	52.4	686 6	CA307888 UI-H-FG1-
C 32	627.8	52.4	811 4	BI488419 603020917
C 33	627	52.3	665 6	CA412335 UI-H-E20-
C 34	626.4	52.2	641 1	AI749536 at30b06.x
C 35	625	52.1	641 5	BQ948995 AGENCOURT
C 36	625	52.1	697 4	BI093074 AGENCOURT
C 37	622.8	51.9	637 7	CN271600 170006000
C 38	621.8	51.9	625 4	BM767559 K-EST0050
C 39	621.4	51.8	628 4	BM842132 K-EST0119
C 40	621	51.8	794 5	BU860855 AGENCOURT
C 41	620	51.7	638 5	BQ943717 AGENCOURT
C 42	620	51.7	898 4	BM461859 AGENCOURT
C 43	619.8	51.7	645 4	BG335338 602404165
C 44	619.4	51.7	662 5	BU934696 AGENCOURT
C 45	619	51.6	619 6	CB158822 K-EST0218

ALIGNMENTS

RESULT 1
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LOCUS BI827113 753 bp mRNA linear EST 04-OCT-2001
DEFINITION 603077308F1 NIH_MGC_119 Homo sapiens cDNA clone IMAGE:5169265 5', mRNA sequence.
ACCESSION BI827113
VERSION BI827113.1 GI:15938663
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 753)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-x@mail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Plate: LLAM11420 row: p column: 02
High quality sequence stop: 753.
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/clone="IMAGE:5169265"
/tissue_type="medulla"
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/notes="Organ: brain; Vector: pCMV-SPORT6; Site 1: NotI; Site 2: EcoRV (destroyed); RNA source normal medulla from anonymous male age 27. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.3 kb, insert size range 0.3-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 013. Note: this is a NIH_MGC Library."

FEATURES

source
1. 753
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5169265"
/tissue_type="medulla"
/lab_host="DH10B"
/notes="Organ: brain; Vector: pCMV-SPORT6; Site 1: NotI; Site 2: EcoRV (destroyed); RNA source normal medulla from anonymous male age 27. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.3 kb, insert size range 0.3-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 013. Note: this is a NIH_MGC Library."

ORIGIN

Query Match		57.9%;	Score 694.8;	DB 4;	Length 753;
Best Local Similarity		98.5%;	Pred. No. 5.1e-159;		
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				Gaps	4;
Qy	449	GGTCCTCTCTTTGTTAAGTAGAGCTTTATCCCGAGCAATTTGT-CAAAATGTAACAATCATG	507		
Db	753	GGTCCTCTCTTTGTTAAGTAGAGCTTTATCCCGAGCAATTTGTGGAATGTACACATCATG	694		
Qy	508	GTTLT-CAATGCGCGTTCCATTTTCAGATGGCATTTTGTGTGTCCTTGAAGCCTTGGC	566		
Db	693	GTTLTCCCATGCGGTGTTCCATTTGAGATGGCATTTTGTGTGTCCTTGAAGCCTTGTG	634		
Qy	567	CGAGCGCGCGAGCGCTGGCGAGCTGGCGAGCTGACGCGGGGGCGAGAG-CCGAGC	625		
Db	633	CGAGCGCTCGCGAGCGCTGGCGAGCTGGCGAGCTGGAACGCGGTCCGAGAGTCCGAGC	574		
Qy	626	CGCGCGGCGCTGTGCGCTTCTTAGTAGCTGCGCGCGGTGGGTAGAGGAGCGCGCGCGG	685		
Db	573	CGCGCGGCGCTGTGCGCTTCTTAGTAGCTGCGCGCGGTGGGTAGAGGGA-CCGCGTCGG	515		
Qy	686	GAGCGGAGGAGCGCTGGCGGCGCTCGGCGAGCGGCGCTCCCGAGCCCTGTCTCTCCGCC	745		
Db	514	GAGCGGAGGAGCGCTGGCGGCGCTCGGCGAGCGGCGCTCCCGAGCCCTGTCTCTCCGCC	455		
Qy	746	TCCTTCTGCCCCGACTCCCGGACCCCGGCGCGGCGCCACCGCCCTGCGCTCCGCC	805		
Db	454	TCCTTCTGCCCCGACTCCCGGACCCCGGCGCGGCGCCACCGCCCTGCGCTCCGCC	395		
Qy	806	GGACCCGCTCGCAGAGGCGCTGCGCGCGCCCGCCAGACAGAGCGTTCTGTAACTTCTCTTC	865		
Db	394	GGACCCGCTCGCAGAGGCGCTGCGCGCGCCCGCCAGACAGAGCGTTCTGTAACTTCTCTTC	335		
Qy	866	AGTAGAACGCTGCTCTCGAATATTTCAGGCGATCCCGCCCTGAGCTGCGCTTCC	925		
Db	334	AGTAGAACGCTGCTGCTCTCGAATATTTCAGGCGATCCCGCCCTGAGCTGCGCTTCC	275		
Qy	926	TCTCGGTTTGGTTTTAGAAAGTGTACAAATCAAAAGAACCGGCGCTCGCGGGTGGG	985		
Db	274	TCTCGGTTTGGTTTTAGAAAGTGTACAAATCAAAAGAACCGGCGCTCGCGGGTGGG	215		
Qy	986	CACGCTGGCGAGAACCGAGGTAAACCGGCTCTCGCGCCACCTACCGGCTTAGGAATTAC	1045		
Db	214	CACGCTGGCGAGAACCGAGGTAAACCGGCTCTCGCGCCACCTACCGGCTTAGGAATTAC	155		
Qy	1046	TTGCTGATGATACCTCGAGGAGTGGCACGTGAGTCTCTATCGACCTCAGAGGCACATAC	1105		
Db	154	TTGCTGATGATACCTCGAGGAGTGGCACGTGAGTCTCTATCGACCTCAGAGGCACATAC	95		
Qy	1106	AGATTAGCCCTAGGAGGTCCGTCTGGGGTCTCGCGCGCTGCGCCAGTGGAGGGCGGC	1165		
Db	94	AGATTAGCCCTAGGAGGTCCGTCTGGGGTCTCGCGCGCTGCGCCAGTGGAGGGCGGC	35		
Qy	1166	ACCTCCCGAGAGCGGGCTTCCGCGCCACCGG	1199		
Db	34	ACCTCCCGAGAGCGGGCTTCCGCGCCACCGG	1		

RESULT 2
BG437145/c
LOCUS
DEFINITION BG437145 769 bp mRNA linear EST 14-MAR-2001
602488791P1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4620694 5',
mRNA sequence.
ACCESSION BG437145
VERSION BG437145.1 GI:13343651
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 769)
NIH-MGC <http://mgc.nci.nih.gov/>.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL

COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgabs-r@mail.nih.gov
Tissue Procurement: DCTD/DTP/Gazdar
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
Plate: LCM1382 row: f column: 23
High quality sequence stop: 750.
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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/tissue_type="large cell carcinoma"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_18"
/notes="Organ: lung; Vector: pOTB7; Site: 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGGAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

ORIGIN

Query Match		57.4%;	Score 688.2;	DB 4;	Length 769;
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Qy	69	CTCGTATTTAACTTTTC-TTTCTCTGCTTGTCAAAATGAGAGTTAGATTTAT-TTTTACA	126		
Db	686	CTCGTATTTAACTTTTCCTGCTTCTGCTTGTCAATGAGAGTTAGATTTATGTTGAACA	627		
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Qy	426	CTCCTTTTCCATCAGTACTCTCAGGTCCTCTTTGTTAAGTAGCCTTTATCCCAGCGAA	485		
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Qy 606 CGCGGGCGGAGAGCGAGCGCGGCGCTGTGCGCTTCTTGTAGTACGTGCGCGGTG 665
Db 146 CGCGGGCGGAGAGCGAGCGCGGCGCTGTGCGCTTCTTGTAGTACGTGCGCGGTG 87
Qy 666 GGTAGAGGAGCGCGCGGCGGAGCGGAGGAGCTTGGCGGCGCTCGGAGGCGCTCCC 725
Db 86 GGTAGAGGAGCGCGCGGCGGAGCGGAGGAGGAGCTTGGCGGCGCTCGGAGGCGCTCCC 27
Qy 726 CCAGCCCTGTCTCTCCCTCCCTCTCC 751
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RESULT 3
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DEFINITION AGENCOURT_14305360 NIH_MGC_173 Homo sapiens cDNA 5', mRNA sequence.
ACCESSION  CD389775
VERSION     CD389775.1 GI:31228693
SOURCE      EST.
ORGANISM    Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 883)
NIH-MGC http://mgi.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. Jamie Thompson, University of WI
cDNA Library Preparation: Gina Zastrow-Hayes
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: NDKM72 row: e column: 19
High quality sequence start: 8
High quality sequence stop: 630.
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cells"
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LIBR PROVIDER - Bradfield"

FEATURES
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Best Local Similarity 100.0%; Pred. No. 4.3e-157;
Matches 687; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACATAAAAGAACCTTTATTATTAGGCGAAGGGGATCAACAATACAAAATCAA 60
Db 705 GGAACATAAAAGAACCTTTATTATTAGGCGAAGGGGATCAACAATACAAAATCAA 646
Qy 61 AAGCTTATCTGGTATTAACTTTCTTTCTCTGTGTCAATGAGAGTTAGATTATT 120
Db 645 AAGCTTATCTGGTATTAACTTTCTTTCTCTGTGTCAATGAGAGTTAGATTATT 586
Qy 121 TTTACATTTGCTAGTCTGCTGATCTGCTCATGAATCTCTTCTATGGGGAGCTGGG 180
Db 585 TTTACATTTGCTAGTCTGCTGATCTGCTCATGAATCTCTTCTATGGGGAGCTGGG 526

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Qy 181 GCAGATTCTTAAAGCGACCCCTTTGGGCAAACTCTTATCAGGGAGGAGCAACTGCTCATT 240
Db 525 GCAGATTCTTAAAGCGACCCCTTTGGGCAAACTCTTATCAGGGAGGAGCAACTGCTCATT 466
Qy 241 TCTGCGCTACTCTCTTCCCTTCTGCTTTCATGTACTACAAAATAGTATTGTCATGCAATG 300
Db 465 TCTGCGCTACTCTCTTCCCTTCTGCTTTCATGTACTACAAAATAGTATTGTCATGCAATG 406
Qy 301 GTGAGGCGCCCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGGCCATCTCTACACTGG 360
Db 405 GTGAGGCGCCCAATTAGGAAAAGAGCTCTGGAAGCCCACTTTGGCCATCTCTACACTGG 346
Qy 361 TCCAGGTCCTTCAATATTTTGTCCACAGCAGAGGGTCTTTTGTGATTTTCAAAAATCCA 420
Db 345 TCCAGGTCCTTCAATATTTTGTCCACAGCAGAGGGTCTTTTGTGATTTTCAAAAATCCA 286
Qy 421 GGGAACTCTCTTTCCATGAGTACTCTCAGTCTCTCTTCTTAAAGTACCTTTATCCCA 480
Db 285 GGGAACTCTCTTTCCATGAGTACTCTCAGTCTCTCTTCTTAAAGTACCTTTATCCCA 226
Qy 481 GCGAATTTGTAAATGTAAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAAT 540
Db 225 GCGAATTTGTAAATGTAAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGGCAAT 166
Qy 541 TTGGTGTGTCCTGTTGAAGCCTTTGGCCAGCGCGCGGACGCTGGCGAGCTGGGCGAG 600
Db 165 TTGGTGTGTCCTGTTGAAGCCTTTGGCCAGCGCGCGGACGCTGGCGAGCTGGGCGAG 106
Qy 601 CTGAGCGCGGGCGGAGAGCGGCGGCGGCGGCTGTGCGCTTCTTAGTACGTGGGC 660
Db 105 CTGAGCGCGGGCGGAGAGCGGCGGCGGCGGCTGTGCGCTTCTTAGTACGTGGGC 46
Qy 661 GGGTGGGTAGAGGAGGCGCGCGGGA 687
Db 45 GGGTGGGTAGAGGAGGCGCGCGGGA 19

RESULT 4
BM785208/c
LOCUS      679 bp      mRNA      linear      EST 05-MAR-2002
DEFINITION K-EST0063546 S13KMS581 Homo sapiens cDNA clone S13KMS581-2-G09 5',
mRNA sequence.
ACCESSION  BM785208
VERSION     BM785208.1 GI:19133440
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 679)
Kim, N.S., Hahn, Y., Oh, J.H., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.R.,
Oh, K.J., Cheong, J.E., Sohn, H.Y., Kim, J.M., Park, H.S., Kim, S. and
Kim, Y.S.
21C Frontier Korean EST Project 2001
Unpublished (2002)
Contact: Kim YS
Genome Research Center
Korea Research Institute of Bioscience & Biotechnology
52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
Tel: +82-42-860-4470
Fax: +82-42-860-4409
Email: yongsung@mail.kribb.re.kr
Plate: 2 row: G column: 09
High quality sequence stop: 679.
Location/Qualifiers
1. .679
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="S13KMS581-2-G09"
/tissue_type="myeloma"
/cell_line="KMS-5"

FEATURES
. source

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/lab_host="Top10F,"
/clone_lib="S13KMS51"
/note="Vector: pCNS; Site 1: EcoRI; Site 2: NotI; The poly
(A) + RNA was dephosphorylated with bacterial alkaline
phosphatase (BAP) and then decapped with tobacco acid
pyrophosphatase (TAP). The decapped intact mRNA was
ligated with DNA-RNA linker including EcoRI site by
treatment of T4 RNA ligase and the first strand cDNA was
synthesized from oligo dT-selected mRNA by priming with
dT-tailed vector. The dT-tailed vector was adjusted to
have about 60nt. The cDNA vector was circularized with E.
coli DNA ligase after digestion of EcoRI which site is
also included in vector. An RNA strand converted to a DNA
strand by Okayama-Berg method. The obtained cDNA vectors
were used for transformation of competent cells E. coli
Top10F by electroporation method. The cDNA libraries
constructed by this method are full-length enriched cDNA
library. After analyzing and sequencing about 2,000 ~
3,000 colonies in original cDNA library, the abundant
cDNAs were selected and amplified by PCR reaction using
vector region primer including T7 promoter as 5' primer
and N(dT)14 as 3' primer. The PCR products were used as
template for synthesis of biotinylated single stranded RNA
by in vitro transcription reaction. The synthesized RNA
probes were hybridized with antisense single stranded
cDNAs prepared from original library and incubated with
avidin-gel. After removing DNA-RNA hybrids by centrifuge,
the subtracted cDNA libraries were constructed by
transformation of the remaining DNA into competent cells E.
coli Top10F with electroporation method."

ORIGIN

Query Match 55.7%; Score 668; DB 4; Length 679;
Best Local Similarity 100.0%; Pred. No. 1.8e-152; Indels 0; Gaps 0;
Matches 668; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAACATAAAAGAACTTTATTATTCAGGCGAAGGGATGCAAAACAATACAAATCAAAATCAAA 60
DB 668 GGAACATAAAAGAACTTTATTATTCAGGCGAAGGGATGCAAAACAATACAAATCAAAATCAAA 609
QY 61 AAGCTTATCTGGTATTTAACTTTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATT 120
DB 608 AAGCTTATCTGGTATTTAACTTTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATT 549
QY 121 TTTACATTTGCTAAGTCTGCTGCTCATGAAATCCTTCTATGCGGGAAGCTGTGGG 180
DB 548 TTTACATTTGCTAAGTCTGCTGCTCATGAAATCCTTCTATGCGGGAAGCTGTGGG 489
QY 181 GCAGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGCGAGGAGCGAACTGCTCAT 240
DB 488 GCAGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGCGAGGAGCGAACTGCTCAT 429
QY 241 TCTGCTTACTTCTTCTCTGCTTCAATGTGACTACAAATAGTCAATGCAATGCAATG 300
DB 428 TCTGCTTACTTCTTCTCTGCTTCAATGTGACTACAAATAGTCAATGCAATGCAATG 369
QY 301 GTGAGGCGCCGCAATAGGGAAGAAAGCTCTGAGGCCCACTTTGCCATCTCTACACTGG 360
DB 368 GTGAGGCGCCGCAATAGGGAAGAAAGCTCTGAGGCCCACTTTGCCATCTCTACACTGG 309
QY 361 TCCAGGTCCTTCAATTTATTTGTCACAGCAGAGGGGCTTTTTCATTTTCCAAATATCCA 420
DB 308 TCCAGGTCCTTCAATTTATTTGTCACAGCAGAGGGGCTTTTTCATTTTCCAAATATCCA 249
QY 421 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCCTCTCTTTGTTAGTACGCTTTATCCCCA 480
DB 248 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCCTCTCTTTGTTAGTACGCTTTATCCCCA 189
QY 481 GCGAATTTGTGAATGTAAACATCATGGTTCCATGCGGTGTTCCATTTGAGATGGCAAT 540
DB 188 GCGAATTTGTGAATGTAAACATCATGGTTCCATGCGGTGTTCCATTTGAGATGGCAAT 129
QY 541 TTGCTGTGGTCCGTTGAAGCCCTTGGCCGAGGCGCGGCGAGCGCTGGGCGAGCTGGGCGAG 600

DB 128 TTGGTGTGCTCGCTTGAAGCCTTTGGCCGAGCGCGCGGACGCTGGCGCGAGCTGGCGCGAG 69
QY 601 CTGGAGCGCGCGCGGAGAGCGGAGCGCGGCGCTGTGCGCCCTTCTTCTAGTACGTGCGGC 660
DB 68 CTGGAGCGCGCGCGGAGAGCGGAGCGCGGCGCTGTGCGCCCTTCTTCTAGTACGTGCGGC 9
QY 661 GGGTGGGT 668
DB 8 GGGTGGGT 1
RESULT 5
LOCUS BUS21490/c
DEFINITION BUS21490.1 GI:22829016
ACCESSION BUS21490
VERSION BUS21490.1
KEYWORDS 5', mRNA sequence.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 681)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLAM14124 row: c column: 01
High quality sequence stop: 624.
FEATURES
Location/Qualifiers
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6527353"
/issue_type="leionysosarcoma"
/lab_host="NIH MGC 71"
/notes="Organ: uterus; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 2.1 kb."

ORIGIN

Query Match 55.5%; Score 665; DB 5; Length 681;
Best Local Similarity 99.8%; Pred. No. 1e-151;
Matches 665; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAACATAAAAGAACTTTATTATTCAGGCGAAGGGATGCAAAACAATACAAATCAAAATCAAA 60
DB 666 GGAACATAAAAGAACTTTATTATTCAGGCGAAGGGATGCAAAACAATACAAATCAAAATCAAA 607
QY 61 AAGCTTATCTGGTATTTAACTTTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATT 120
DB 606 AAGCTTATCTGGTATTTAACTTTCTCTGCTTGTCAAAATGAGAGTTAGATTTTATT 547
QY 121 TTTACATTTGCTAAGTCTGCTGCTCATGAAATCCTTCTATGCGGGAAGCTGTGGG 180
DB 546 TTTACATTTGCTAAGTCTGCTGCTCATGAAATCCTTCTATGCGGGAAGCTGTGGG 487
QY 181 GCAGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGCGAGGAGCGAACTGCTCAT 240
DB 486 GCAGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGCGAGGAGCGAACTGCTCAT 427

241 TCTGCTACTTCTTCCCTTCTGCTTCATGTGTAACAAATAGTCAATGCAATG 300
 Db TCTGCTACTTCTTCCCTTCTGCTTCATGTGTAACAAATAGTCAATGCAATG 367
 Qy GTGAGGCCCGCAATTTAGGGAAGAGCTCTGGAAGCCACTTTGCCATCTCTACACTGG 360
 Db GTGAGGCCCGCAATTTAGGGAAGAGCTCTGGAAGCCACTTTGCCATCTCTACACTGG 307
 Qy TCCAGGTCCTTTCATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTCCAAAATCCA 420
 Db TCCAGGTCCTTTCATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTCCAAAATCCA 247
 Qy GGGAACTCTTTCATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTCCAAAATCCA 480
 Db GGGAACTCTTTCATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTCCAAAATCCA 187
 Qy GCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTCTCCATTTGAGATGGCATT 540
 Db GCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTCTCCATTTGAGATGGCATT 127
 Qy TTGTTGTGTCCTTGAAGCCTTGGCCGAGCGCGGCGAGCTGGCGAGCTGGCGGAG 600
 Db TTGTTGTGTCCTTGAAGCCTTGGCCGAGCGCGGCGAGCTGGCGAGCTGGCGGAG 67
 Qy CTGACGCGGGCGGAGAGCGGCGGCGGCGGCGGCGGCTGTCGCTTCTTTAGTACGTGGCG 660
 Db CTGACGCGGGCGGAGAGCGGCGGCGGCGGCGGCGGCTGTCGCTTCTTTAGTACGTGGCG 7
 Qy 661 GGGTGG 666
 Db 6 GGGTGG 1

RESULT 6
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 LOCUS 602662641F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:4811026 5',
 DEFINITION mRNA sequence.

ACCESSION BG774775
 VERSION BG774775.1 GI:14045092
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 NIH-MGC <http://mhc.nci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: ATCC

cDNA Library Preparation: Ling Hong/Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: LUCM1668 row: a column: 11
 High quality sequence stop: 666.
 Location/Qualifiers

1. 671
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 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4811026"
 /tissue type="choriocarcinoma"
 /lab host="DH10B (phage-resistant)"
 /clone lib="NIH MGC 21"
 /note="Organ: placenta; Vector: pOTB7; site 1: XhoI;
 Site 2: EcoRI; cDNA made by oligo-dr priming.
 Directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGCACGAG(G). Size-selected >500bp

FEATURES
 source

for average insert size 1.8kb. Library constructed by
 Ling Hong in the laboratory of Gerald M. Rubin (University
 of California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies)."

ORIGIN
 Query Match 55.3%; Score 663; DB 4; Length 671;
 Best Local Similarity 99.3%; Pred. No. 3.1e-151;
 Matches 666; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 Qy 250 TTCTTTCCCTTCTGCTTCATGTGTAACAAATAGTCAATGCAATGCAATG 309
 Db 671 TTCTTTCCCTTCTGCTTCATGTGTAACAAATAGTCAATGCAATGCAATG 612
 Qy 310 GCAATTAGGGAAGAAAGCTCTGGAAGCCACTTTGCCATCTCTACACTGGTCC 369
 Db 611 GCAATTAGGGAAGAAAGCTCTGGAAGCCACTTTGCCATCTCTACACTGGTCC 552
 Qy 370 TTCAATATTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAATCCAAGGAACTCC 429
 Db 551 TTCAATATTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAATCCAAGGAACTCC 492
 Qy 430 TTTTCCATGAGTACTCTCAGGTCTCTCTTGTAAAGTAGCTTTATCCCGAGCAATTTG 489
 Db 491 TTTTCCATGAGTACTCTCAGGTCTCTCTTGTAAAGTAGCTTTATCCCGAGCAATTTG 432
 Qy 490 TGAATGTAAACATCATGTTTCCATGCGCGTGTTCATTTGAGATGGCATTTTGGTGTGG 549
 Db 431 TGAATGTAAACATCATGTTTCCATGCGCGTGTTCATTTGAGATGGCATTTTGGTGTGG 372
 Qy 550 TCCGTTGAAGCCTTTGGCCGAGCGCGCGGAGCTGGCGGAGCTGGCGGAGCTGGACGCG 609
 Db 371 TCCGTTGAAGCCTTTGGCCGAGCGCGCGGAGCTGGCGGAGCTGGCGGAGCTGGACGCG 312
 Qy 610 GGGCGGAGCGCGAGCGCGCGGCTGTGCGCTTCTTACTAGTGGCGGGTGGGTA 669
 Db 311 GGGCGGAGCGCGAGCGCGCGGCTGTGCGCTTCTTACTAGTGGCGGGTGGGTA 252
 Qy 670 GAGGAGCGCGCGCGGAGCGGAGGAGCTTGGCGGCGCTCGGCGGCGCTCCCCCAG 729
 Db 251 GAGGAGCGCGGTGGCGGAGCGGAGGAGCTTGGCGGCGCTCGGCGGCGCTCCCCCAG 192
 Qy 730 CCCTGTCTCTCCCTCTTCTTCTGCCCCGACTCCCCGAGCCCCCGGCGCGGCGGCGG 789
 Db 191 CCCTGTCTCTCCCTCTTCTTCTGCCCCGACTCCCCGAGCCCCCGGCGCGGCGGCGG 132
 Qy 790 CCCTGCCCTCGCTCCCGAGCGCGCTCGCAGAGGCTCGCCCGCCCGCCAGACAGAGCTTC 849
 Db 131 CCCTGCCCTCGCTCCCGAGCGCGCTCGCAGAGGCTCGCCCGCCCGCCAGACAGAGCTTC 72
 Qy 850 TTGTAAACTTCTCTTCACTAGTAAGACGCTCTCTCGAATATTTTCAAGGGCATCCCCACC 909
 Db 71 TTGTAAACTTCTCTTCACTAGTAAGACGCTCTCTCGAATATTTTCAAGGGCATCCCCACC 12
 Qy 910 CTGAGCCTGCC 920
 Db 11 GTGAGCCTGCC 1

RESULT 7
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 LOCUS 601564949F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3925932 5',
 DEFINITION mRNA sequence.
 ACCSSION BE729901
 VERSION BE729901.1 GI:10143893
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 NIH-MGC <http://mhc.nci.nih.gov/>.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC/DCTD/DTp
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LLCW753 row: b column: 13
High quality sequence stop: 745.
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/clone_lib="NIH MGC 20"
/note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGACAGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

ORIGIN

Query Match	54.9%;	Score	658.8;	DB 2;	Length	912;	
Best Local Similarity	97.4%;	Pred. No.	3.4e-150;				
Matches	744;	Conservative	0;	Mismatches	12;	Indels	8;
Gaps							

Qy	111	AGATTTTATTTTACATTTGCTTAAGTGTCTGATCTGCTCATGAATAATCCTTCTATGCGGG	170
Db	756	AGATAATAATTAATTTACATTTGCTTAAGTGTCTGATCTGCTCATG-AATCCTTCTATGCGGA	698
Qy	171	AAGCTGTGGGCAGATTCTTAAGCGACCTTTGGGCAACTCTTATCAGGAGGACGCA	230
Db	697	A--CTGTGGGCAGATTCTTAAGCGACCTTTGGGCAACTCTTATCAGGAGGACGCA	640
Qy	231	ACTGCTCAATTTCTGCTACTTCTTTCCCTTCTGCTTCAATGTGTACTACAAATAAGTCAAT	290
Db	639	ACTGCTCAATTTCTGCTACTTCTGCTCCCTTCTGCTTCAATGTGTACTAC-AAATAGTCAAT	581
Qy	291	GCATGCAATGGTGTAGCGCCCGCAATTTAGGGAAAAGAGCTCTGGAAGGCCACTTTGGCCATC	350
Db	580	GCATGCAATGGTGA--GCCCGCAATTTAGGGAAAAGAGCTCTGGAAGGCCACTTTGGCCATC	522
Qy	351	TCTACACTGGTCCAGTCCCTTCATTAATTTGTGCACAGCAGAGGGTCTTTTGAATTTTC	410
Db	521	TCTACACTGGTCCAGTCCCTTCATTAATTTGTGCACAGCAGAGGGTCTTTTGAATTTTC	462
Qy	411	CAAAAATCCAGGAACTCCCTTTTCCATCAGTACTCTCAGGTCTCCTTTGTTAAGTAGCC	470
Db	461	C-AAATCCAGGAACTCCCTTTTCCATCAGTACTCTCAGGTCTCCTTTGTTAAGTAGCC	403
Qy	471	TTTATCCCAGCGAAATTTGTGAAATGTAAACATCATGTTTCCATGCGGTGTCCCAATTG	530
Db	402	TTTATCCCAGCGAAATTTGTGAAATGTAAACATCATGTTTCCATGCGGTGTCCCAATTG	343
Qy	531	AGATGCGAATTTTGGTGTGTCCGTTGAAGCCTTTGGCCGAGCGCGGCGGACGTGGCGCA	590
Db	342	AGATGCGAATTTTGGTGTGTCCGTTGAAGCCTTTGGCCGAGCGCGGCGGACGTGGCGCA	284
Qy	591	GCTGGCGGAGCTGGACGCGGGGCGGAGAGGCGGCGCGCGGTGTGTGCGCTTCTCTTAG	650
Db	283	GCTGGCGGAGCTGGACGCGGGGCGGAGAGGCGGCGCGCGGTGTGTGCGCTTCTCTTAG	224
Qy	651	TACGTCCGCGGTGGGTAGAGGGAGCGCGCGGAGCGGAGGAGCCTTGGCGGCGCT	710

Db	223	TACGTGCGCGGTGGGTAGAGGAGCGCGCGGAGCGGAGAGAGCCTGGCGGGCGCT	164
Qy	711	CGCAGAGGCGCTCCCCAGCCCTGTCTCTCCCTCCCTCTTCTCTGCCCCCGAGCTCCCCGAC	770
Db	163	CGCAGGCGCTCCCCAGCCCTGTCTCTCCCTCTTCTCTGCCCCGAGCTCCCCGAC	104
Qy	771	CCGCGGCGCGCGCCACCGCCTTGCCTCCCGGACCCGCGCTCGCAGAGGCTTCGCC	830
Db	103	CCGCGGCGCGCGCCACCGCCTTGCCTCCCGGAGCCGCTCCCGGAGGCTTCGCC	45
Qy	831	CGCCCCAGACAGAGCTTCTGTGTAACCTTCTCTCAGTAGAAG	874
Db	44	CGCCCCAGACAGAGCGTCTTGTGTAACCTTCTCTCAGTAGAAG	1
RESULT 8			
CR610742/c			
LOCUS	CR610742	660 bp	mRNA linear HTC 21-JUL-2004
DEFINITION	full-length cDNA clone CS0DK004YH20 of Hela cells Cot 25-normalized of Homo sapiens (human).		
ACCESSION	CR610742		
VERSION	CR610742.1	GI:50491549	
KEYWORDS	HTC; CNSLT_cDNA.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
AUTHORS	Li, W.B., Gruber, C., Jesse, J., and Polayes, D.		
TITLE	Full-length cDNA libraries and normalization		
JOURNAL	Unpublished		
REMARK	Contact : Feng Liang Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Paraday Avenue		
REFERENCE	2 (bases 1 to 660)		
AUTHORS	Genoscope.		
TITLE	Direct Submission		
JOURNAL	Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr - Web : www.genoscope.cns.fr)		
COMMENT	1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of Invitrogen.		
FEATURES	Location/Qualifiers		
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	/clone="CS0DK004YH20"		
	/tissue type="Hela cells Cot 25-normalized"		
	/plasmid="pCMVSPORT_6"		
ORIGIN			
Query Match	54.8%; Score 657; DB 3; Length 660;		
Best Local Similarity	100.0%; Pred. No. 9e-150;		
Matches	657; Conservative	0; Mismatches	0; Indels
	Gaps	0;	
Qy	1	GGAACTAAAAAGAACTTTATTGAGGGCAAGGGGATGCAAAACAATACAAATCAA	60
Db	657	GGAACAAAAAGAACTTTATTGAGGGCAAGGGGATGCAAAACAATACAAATCAA	598
Qy	61	AAGCTATCTGGTATTAACCTTTCTCTCTGCTGTCAAATGAGAGTTAGATTTTATT	120
Db	597	AAGCTATCTGGTATTTAACTTTCTCTCTGCTGTCAAATGAGAGTTAGATTTTATT	538
Qy	121	TTTACATTTCTGAAGTGTCTGTATCTGTCATGAAATCCCTCTATGGGGGAAGCTGTGGG	180
Db	537	TTTACATTTCTGAAGTGTCTGTATCTGTCATGAAATCCCTCTATGGGGGAAGCTGTGGG	478
Qy	181	GCAGATTCTTAAAGCGACCTTTTGGGACAACTTTATFAGGGAGGACGCAACTGCTCAT	240

Db	477	GCAGATTCCTTTAAGCGACCCCTTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAATT	4118
Qy	241	TCTGCCTACTTCTTTCCCTCTTCTGCTTCACTGTGTACTACAAAATAGTCAATGCGATGCAATG	300
Db	417	TCTGCCTACTTCTTTCCCTCTTCTGCTTCACTGTGTACTACAAAATAGTCAATGCGATGCAATG	358
Qy	301	GTGAGGCCCGCAATTAGGGAAAAAGAGCTCTGGGAAGCCCACTTTGGCCACTCTCTACACTGG	360
Db	357	GTGAGGCCCGCAATTAGGGAAAAAGAGCTCTGGGAAGCCCACTTTGGCCACTCTCTACACTGG	298
Qy	361	TCCAGGTCCTTCAATATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAATCCA	420
Db	297	TCCAGGTCCTTCAATATTTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAATCCA	238
Qy	421	GGGAACCTCTTTTCCATGAGTACTCTCAGGTCCTCTCTTTGTTAAAGTAGCCTTTATCCCA	480
Db	237	GGGAACCTCTTTTCCATGAGTACTCTCAGGTCCTCTCTTTGTTAAAGTAGCCTTTATCCCA	178
Qy	481	CGCAATTGTGAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCAATT	540
Db	177	CGCAATTGTGAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCAATT	118
Qy	541	TTGSGTGTGTCCTGTTGAAGCCTTGGCCGAGGGCGGCGGACGCTTGGGGCGAGCTGGGCGAG	600
Db	117	TTGSGTGTGTCCTGTTGAAGCCTTGGCCGAGGGCGGCGGAGCGCTTGGGGCGAGCTGGGCGAG	58
Qy	601	CTGACCGGGGCGGAGGCGAGCGGGCGGGCTGTGCGGCTTCTTTAGTAGCTGC	657
Db	57	CTGACCGGGGCGGAGGCGAGCGGGCGGGCTGTGCGGCTTCTTTAGTAGCTGC	1

RESULT 9	660 bp	mRNA	linear	EST 23-APR-2004
EX362846/c				
LOCUS	EX362846	Homo sapiens HELA CELLS	COT 25-NORMALIZED	Homo sapiens
DEFINITION	cDNA clone CS0DX004YH20 5-PRIME, mRNA sequence.			
ACCESSION	EX362846			
VERSION	EX362846.2	GI:46552294		
KEYWORDS	EST.			
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens			
REFERENCE	Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
AUTHORS	Li, W.B., Gruber, C., Jesses, J. and Polayes, D.			
TITLE	Full-length cDNA libraries and normalization			
JOURNAL	Unpublished (2001)			
COMMENT	On May 5, 2003 this sequence version replaced gi:30380679.			

FEATURES
SOURCE

RESULT 10	REFERENCE
CD177393/c	AUTHORS
LOCUS	TITLE
DEFINITION	JOURNAL
ACCESSION	COMMENT
VERSION	
KEYWORDS	
SOURCE	
ORGANISM	

ORIGIN		Query Match Best Local Similarity Matches	54.8% 100.0% 657;	Score 657; Pred. No. 9e-150; Conservative	DB 5; Length 660; Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	GGAACTAAAAAGAACCTTTATTTATTGAGGGCAAGGGGATGCAACACAATACAAAAATCAA	60				
Db	657	GGAACTAAAAAGAACCTTTATTTATTGAGGGCAAGGGGATGCAACACAATACAAAAATCAA	598				
Qy	61	AAGCTTATCGGTATTTTAACCTTTTCCTCTCCTGTGTCAAAATGAGAGTTTAGATTTTTATT	120				
Db	597	AAGCTTATCGGTATTTTAACCTTTTCCTCTCCTGTGTCAAAATGAGAGTTTAGATTTTTATT	538				
Qy	121	TTTACATTTCTGAAGTGCTCTGATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGG	180				
Db	537	TTTACATTTCTGAAGTGCTCTGATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGG	478				
Qy	181	GCAGATTTCTTAAGCGACCCTTTTGGGACAACTCTTATCAGGGAGGAGCGAATCGTCAATT	240				
Db	477	GCAGATTTCTTAAGCGACCCTTTTGGGACAACTCTTATCAGGGAGGAGCGAATCGTCAATT	418				
Qy	241	TCTGCCCTACTCTTTCCCTTCTGCTTCATGTGTACTACAAAAATAGTCATTTGCGATGCAATG	300				
Db	417	TCTGCCCTACTCTTTCCCTTCTGCTTCATGTGTACTACAAAAATAGTCATTTGCGATGCAATG	358				
Qy	301	GTGAGGCCCGCAATTAGGGAAAAGAAGCTCTGGAAGCCCACTTTTGCCATCTCTACACTGG	360				
Db	357	GTGAGGCCCGCAATTAGGGAAAAGAAGCTCTGGAAGCCCACTTTTGCCATCTCTACACTGG	298				
Qy	361	TCCAGGTCTCTTCATTATTTTGTCCACAGCCAGAGGGTCCTTTTGTATTTTCCAAAAATCCA	420				
Db	297	TCCAGGTCTCTTCATTATTTTGTCCACAGCCAGAGGGTCCTTTTGTATTTTCCAAAAATCCA	238				
Qy	421	GGGAATCTCTTTTCCATAGTACTCTCAGGTCTCTTTGTGTAAAGTAGCCTTTATCCCCA	480				
Db	237	GGGAATCTCTTTTCCATAGTACTCTCAGGTCTCTCTTTGTGTAAAGTAGCCTTTATCCCCA	178				
Qy	481	GCGAATTTGTGAAATGTAAACATCATGTGTTTCCATCGCGTGTTTCCATTTTGAGATGGCATT	540				
Db	177	GCGAATTTGTGAAATGTAAACATCATGTGTTTCCATCGCGTGTTTCCATTTTGAGATGGCATT	118				
Qy	541	TTGGTGTGGTCCGTTTGAAGCTTTGGCGCGAGCGCGCGGACGCTGGCGGACGCTGGCGCGAG	600				
Db	117	TTGGTGTGGTCCGTTTGAAGCTTTGGCGCGAGCGCGCGGACGCTGGCGGACGCTGGCGCGAG	58				
Qy	601	CTGGAACGCGGGCGGAGAGCGAGCGCGCGGCGCTGTGCGCCTTCCTTAGTAGTACGTGC	657				
Db	57	CTGGAACGCGGGCGGAGAGCGAGCGCGCGGCGCTGTGCGCCTTCCTTAGTAGTACGTGC	1				

RESULT 10	CD177393	705 bp	mrna	linear	EST 19-MAY-2003
LOCUS	CD177393/c				
DEFINITION	AGENCOURT_13977124 NIH_MGC_173				EST 19-MAY-2003
ACCESSION	CD177393				Hom sapiens cDNA 5', mRNA sequence.
VERSION	CD177393.1	GI:30863968			
KEYWORDS	EST.				
SOURCE	Hom sapiens (human)				
ORGANISM	Hom sapiens				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE	1 (bases 1 to 705)				
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/ .				
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)				
JOURNAL	Unpublished (1999)				
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgapbs@mail.nih.gov Tissue Procurement: Dr. Jamie Thompson, University of WI CDNA Library Preparation: Gina Zastrow-Hayes CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be				

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov
Plate: NDKM38 row: c column: 22
High quality sequence start: 17
High quality sequence stop: 670.
Location/Qualifiers
1. .705
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/tissue_type="embryonic trophoblasts, made from WA01 stem cells"
/lab_host="DH10B Tona"
/clone_lib="NIH_MGC 173"
/notes="Vector: pDON201; Site 1: attP2; Site 2: attP1;
LIBR_PRIMING - oligo dt; METHOD - full-length enriched;
LIBR_PROVIDER - Bradfield"

FEATURES

source

ORIGIN

Query Match 54.4%; Score 652.8; DB 6; Length 705;
Best Local Similarity 98.9%; Pred. No. 9.7e-149;
Matches 657; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 GGAACAAAAAGAACTTTATTTATTGAGGCAAGGGATGCAAAACAATACAAAAATCAA 60
Db 684 GGAACAAAAAGAACTTTATTTATTGAGGCAAGGGATGCAAAACAATACAAAAATCAA 625

Qy 61 AAGCTTATCTGGTATTAACTTTCTCTGCTGCTCAATGAGAGTTAGATTTATT 120
Db 624 AAGCTTATCTGGTATTAACTTTCTCTGCTGCTCAATGAGAGTTAGATTTATT 565

Qy 121 TTTACATTTGCTAGTGTCTGATCTGCTCATGAATCCCTTCTATGGGGAAGCTGTGGG 180
Db 564 TTTACATTTGCTAGTGTCTGATCTGCTCCCATGAATCCCTTCTATGGGGAAGCTGTGGG 505

Qy 181 GCAGATTCCTTAAGCGACCCCTTTGGGCAACTCTTATCAGGAGGAGCGAACTGCTCAT 240
Db 504 GCAGATTCCTTAAGCGACCCCTTTGGGCAACTCTTATCAGGAGGAGCGAACTGCTCAT 445

Qy 241 TCTGCTTACTTCTTCCCTTCTGCTTCTATGCTACTACAAATAGTATTCATGCAATG 300
Db 444 TCTGCTTACTTCTTCCCTTCTGCTTCTATGCTACTACAAATAGTATTCATGCAATG 385

Qy 301 GTGAGGCCCGCAATTAGGAAAAAGAACTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db 384 GTGAGGCCCGCAATTAGGAAAAAGAACTCTGGAAGCCCACTTTGCCATCTCTACACTGG 325

Qy 361 TCCAGGTCCTTTCATTTATTTTGTCCACAGCAGAGGGTCTTTTGTATTTCCAAAAATCCA 420
Db 324 TCCAGGTCCTTTCATTTATTTTGTCCACAGCAGAGGGTCTTTTGTATTTCCAAAAATCCA 265

Qy 421 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCCTCTTTGTTAGTAGCCCTTTATCCCA 480
Db 264 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCCTCTTTGTTAGTAGCCCTTTATCCCA 205

Qy 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGCTGTTCCATTTGAGATGGCATT 540
Db 204 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGCTGTTCCATTTGAGATGGCATT 145

Qy 541 TTGGTGTGGTCCGTTGAAGCCCTTGGCCGAGCGCGCGGAGCGTGGCGAGCTGGCGAG 600
Db 144 TTGGTGTGGTCCGTTGAAGCCCTTGGCCGAGCGCGCGGAGCGTGGCGAGCTGGCGAG 85

Qy 601 CTGACGCGGGCGGAGGCGGAGCGCGGGGCTGTGGCTTCTTAGTAGTGGCGG 660
Db 84 CTGACGCGGGCGGAGGCGGAGCGCGGGGCTGTGGCTTCTTAGTAGTGGCGG 25

Qy 661 GGGT 664
Db 24 GGTT 21

, RESULT 11

BQ646470/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BQ646470 670 bp mRNA linear EST 15-JUL-2002
AGENCOURT_8286408 NIH_MGC_100 Homo sapiens cDNA clone IMAGE:6299585
5', mRNA sequence.
BQ646470
BQ646470.1 GI:21770642
EST.
Homo sapiens (human)

1 (bases 1 to 670)

NIH-MGC http://mgc.nci.nih.gov/.

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgabbs-remail.nih.gov

Tissue Procurement: CGAP (Stanford)

cDNA Library Preparation: Rubin Laboratory

DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LLCM2512 row: h column: 18

High quality sequence stop: 640.

Location/Qualifiers

1. .670

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:6299585"

/tissue_type="hepatocellular carcinoma, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH_MGC_100"

/notes="Organ: liver; Vector: pOTB7; Site 1: XhoI; Site 2:

EcORI; cDNA made by oligo-dT priming. Directionally cloned

into EcoRI/XhoI sites using the following 5' adaptor:

GGCAGCAG(G). Size-selected >500bp for average insert size

1.8kb. Library constructed by Ling Hong in the laboratory

of Gerald M. Rubin (University of California, Berkeley)

using ZAP-cDNA synthesis kit (Stratagene) and Superscript

II RT (Life Technologies). Note: this is a NIH_MGC

Library."

Library."

ORIGIN

Query Match 54.4%; Score 652; DB 5; Length 670;
Best Local Similarity 100.0%; Pred. No. 1.5e-148;
Matches 652; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACAAAAAGAACTTTATTTATTGAGGCAAGGGATGCAAAACAATACAAAAATCAA 60
Db 652 GGAACAAAAAGAACTTTATTTATTGAGGCAAGGGATGCAAAACAATACAAAAATCAA 593

Qy 61 AAGCTTATCTGGTATTAACTTTTCTCTGCTTGTCAAATGAGAGTTAGATTTATT 120
Db 592 AAGCTTATCTGGTATTAACTTTTCTCTGCTTGTCAAATGAGAGTTAGATTTATT 533

Qy 121 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAATCCCTTCTATGGGGAAGCTGTGGG 180
Db 532 TTTACATTTGCTAAGTGTCTGATCTGCTCATGAATCCCTTCTATGGGGAAGCTGTGGG 473

Qy 181 GCAGATTCCTTAAGCGACCCCTTTGGGACAACCTTTATCAGGAGGAGCGAACTGCTCAT 240
Db 472 GCAGATTCCTTAAGCGACCCCTTTGGGACAACCTTTATCAGGAGGAGCGAACTGCTCAT 413

Qy 241 TCTGCTTACTTCTTCCCTTCTGCTTCTATGCTGTACTACAAAAATAGTCAATGCAATG 300
Db 412 TCTGCTTACTTCTTCCCTTCTGCTTCTATGCTGTACTACAAAAATAGTCAATGCAATG 353

Qy 301 GTGAGGCCCGCAATTAGGAAAAAGAACTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db 352 GTGAGGCCCGCAATTAGGAAAAAGAACTCTGGAAGCCCACTTTGCCATCTCTACACTGG 293

QY 361 TCCAGGTCCTTCATTAATTTTGTCCACAGCAGAGGGTCTTTTGTGATTTTCCAAAAATCCA 420
Db |||||
292 TCCAGGTCCTTCATTAATTTTGTCCACAGCAGAGGGTCTTTTGTGATTTTCCAAAAATCCA 233
QY 421 GGGAACTCCTTTTCCATCAGTACTCTCAGGTCCTCTTTGTTAACTAGTACCTTTATCCCA 480
Db |||||
232 GGGAACTCCTTTTCCATCAGTACTCTCAGGTCCTCTTTGTTAACTAGTACCTTTATCCCA 173
QY 481 CGCAATTTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCAAT 540
Db |||||
172 CGCAATTTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCAAT 113
QY 541 TTGTTGTGTCGTTGAAGCCTTGCCGAGGCGCGGCGAGCGCTGGGCGAGCTGGGCGAG 600
Db |||||
112 TTGTTGTGTCGTTGAAGCCTTGCCGAGGCGCGGCGAGCGCTGGGCGAGCTGGGCGAG 53
QY 601 CTGAGCGCGGCGGAGAGGCGAGCGCGCGGCGTGTGCGCTTCCCTTAGTA 652
Db |||||
52 CTGAGCGCGGCGGAGAGGCGAGCGCGCGGCGTGTGCGCTTCCCTTAGTA 1

RESULT 12
BG339527/c
LOCUS
DEFINITION BG339527 737 bp mRNA linear EST 27-FEB-2001
602437371F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:455216 5',
mRNA sequence.
ACCESSION BG339527
VERSION BG339527.1 GI:13145965
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 737)
AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLCM1255 row: n column: 17
High quality sequence stop: 724.
Location/Qualifiers
1. 737
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:455216"
/tissue_type="leiomyosarcoma cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC 46"
/note="Organ: uterus; Vector: pOTB7; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGGAG(G). Size-selected >500bp for average insert size
1.8kb. Library constructed by Ling Hong in the laboratory
of Gerald M. Rubin (University of California, Berkeley)
using ZAP-cDNA synthesis kit (Stratagene) and Superscript
II RT (Life Technologies). Note: this is a NIH_MGC
Library."

FEATURES
source

RESULT 13
BM541317/c
LOCUS
DEFINITION BM541317 663 bp mRNA linear EST 20-FEB-2002
AGENCOURT 6493714 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:5521398
5', mRNA sequence.
ACCESSION BM541317
VERSION BM541317.1 GI:18769859
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 663)
AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:

ORIGIN

Query Match 54.3%; Score 651.6; DB 4; Length 737;
Best Local Similarity 96.9%; Pred. No. 1.9e-148;
Matches 695; Conservative 0; Mismatches 17; Indels 5; Gaps 3;

http://image.llnl.gov
Plate: L1AM12186 row: p column: 07
High quality sequence stop: 657.
Location/Qualifiers

FEATURES

source
1. .663
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5521398"
/tissue_type="leiomyosarcoma"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_71"
/note="Organ: uterus; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dr.
Average insert size 2.1 kb."

ORIGIN

Query Match 54.0%; Score 648; DB 4; Length 663;
Best Local Similarity 100.0%; Pred. No. 1.4e-147;
Matches 648; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACCTAAAAGAACCTTTATTATTGAGGCAAGGGGATGCAACAAATACAAAATCAA 60
Db |||||
Qy 61 AAGCTTATCTGGTATTAACTTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 120
Db |||||
Qy 588 AAGCTTATCTGGTATTAACTTTCTCTGCTTGTCAAATGAGAGTTAGATTTTATT 529
Db |||||
Qy 121 TTTACATTTGTAAGTGTCTGTATCTGCTCATGAAATCCCTTCTATGGGGGAAGCTGTGGG 180
Db |||||
Qy 528 TTTACATTTGTAAGTGTCTGTATCTGCTCATGAAATCCCTTCTATGGGGGAAGCTGTGGG 469
Db |||||
Qy 181 GCAGATTCCTTAAGGACCCCTTTGGGACNACTCTTATCAGGAGGAGGAACTGCTCAT 240
Db |||||
Qy 468 GCAGATTCCTTAAGGACCCCTTTGGGACNACTCTTATCAGGAGGAGGAACTGCTCAT 409
Db |||||
Qy 241 TCTGCTACTTCTTTCCCTTCTGCTCATGTGTACTACAAATAGTCATTCATGCAATG 300
Db |||||
Qy 408 TCTGCTACTTCTTTCCCTTCTGCTCATGTGTACTACAAATAGTCATTCATGCAATG 349
Db |||||
Qy 301 GTGAGGCGCGCAATTAGGAAAAGAAAGCTGTGGAAGCCCACTTTGCCATCTCTACATGG 360
Db |||||
Qy 348 GTGAGGCGCGCAATTAGGAAAAGAAAGCTGTGGAAGCCCACTTTGCCATCTCTACATGG 289
Db |||||
Qy 361 TCCAGGTCCTTCATATTATTTGTCACAGCCAGAGGCTTTTTCATTTCCAAAATCCA 420
Db |||||
Qy 288 TCCAGGTCCTTCATATTATTTGTCACAGCCAGAGGCTTTTTCATTTCCAAAATCCA 229
Db |||||
Qy 421 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGCCCTTTATCCCA 480
Db |||||
Qy 228 GGGAACTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGCCCTTTATCCCA 169
Db |||||
Qy 481 GCGAATTTGTGAATGAAACATCATGGTTTCCATGGCGGTGTTCCATTTGAGATGGCA 540
Db |||||
Qy 168 GCGAATTTGTGAATGAAACATCATGGTTTCCATGGCGGTGTTCCATTTGAGATGGCA 109
Db |||||
Qy 541 TTGTTGTTGTCGTTGAAGCCCTTGGCGAGCGCGGAGCGCTGGGAGCTGGGCGAG 600
Db |||||
Qy 108 TTGTTGTTGTCGTTGAAGCCCTTGGCGAGCGCGGAGCGCTGGGAGCTGGGCGAG 49
Db |||||
Qy 601 CTGACGCGGGGCGGAGAGGCGGCGGCGGGGCTGTGGCGCTTCCCTT 648
Db |||||
Qy 48 CTGACGCGGGGCGGAGAGGCGGCGGCGGGGCTGTGGCGCTTCCCTT 1

RESULT 14
BU594774/c
LOCUS
DEFINITION AGENCOURT_8843010 NIH_MGC_142 Homo sapiens cDNA clone IMAGE:6450402
5', mRNA sequence.
ACCESSION BU594774
VERSION BU594774.1 GI:23246533

KEYWORDS
SOURCE
ORGANISM

EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NIH-MGC http://mgs.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-femail.nih.gov
Tissue Procurement: NCI
cDNA Library Preparation: Michael Brownstein Laboratory
cDNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1CM2620 row: p column: 19
High quality sequence stop: 457.
Location/Qualifiers

FEATURES
source

1. .843
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6450402"
/tissue_type="mixed (pool of 40 RNAs)"
/lab_host="DH10B (T1-phage-resistant)"
/clone_lib="NIH_MGC_142"
/notes="Vector: pDNR-LIB; Site 1: SfiI (ggccattatggcc);
Site 2: SfiI (ggccgctctggc); Double-stranded cDNA was
prepared from a pool of 40 cell line polyA+ RNAs (bladder
- 2%, blood - 33.4%, brain - 5.6%, breast - 12.5%, colon -
4%, connective tissue - 1.4%, eye - 1%, intestine - 2.6%,
kidney - 2.2%, liver - 5.7%, lung - 10.8%, NK-cell - 5.2%,
ovary - 4%, pharynx - 2.5%, prostate - 4.3%, salivary
gland - 1.3%, and skin - 2.3%). 5' and 3' adaptors were
used in cloning as follows:
5'-AAGCAGTGTGTATCAACGACGAGTGGCCATTACGCGCGG-3' and
5'-ATTCTAGAGCGCGGCGCGACATG-dt(30)NN-3'. Full-length
enriched library was constructed using the Clontech
Creator SMART kit and size-selected to contain the >0.5 kb
size fraction (other fractions present in NIH_MGC_141).
Library created in the laboratory of M. Brownstein (NIH,
NIH). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 53.9%; Score 646.6; DB 5; Length 843;
Best Local Similarity 99.4%; Pred. No. 3.3e-147;
Matches 649; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 1 GGAACCTAAAAGAACCTTTATTATTGAGGCAAGGGGATGCAACAAATACAAAATCAA 60
Db |||||
Qy 655 GGAACCTAAAAGAACCTTTATTATTGAGGCAAGGGGATGCAACAAATACAAAATCAA 596
Db |||||
Qy 61 AAGCTTATCTGGTATTAACTTTCTCTGCTGTCAAATGAGAGTTAGATTTTATT 120
Db |||||
Qy 595 AAGCTTATCTGGTATTAACTTTCTCTGCTGTCAAATGAGAGTTAGATTTTATT 536
Db |||||
Qy 121 TTTACATTTGCTAAGTGTCTGTATCTGCTCATGAAATCCCTTCTATGGGGGAAGCTGTGGG 180
Db |||||
Qy 535 TTTACATTTGCTAAGTGTCTGTATCTGCTCATGAAATCCCTTCTATGGGGGAAGCTGTGGG 476
Db |||||
Qy 181 GCAGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGAGGAGGAACTGCTCAT 240
Db |||||
Qy 475 GCAGATTCCTTAAGCGACCCCTTTGGGACAACTCTTATCAGGAGGAGGAACTGCTCAT 416
Db |||||
Qy 241 TCTGCTACTTCTTTCCCTTCTGCTCATGTGTACTACAAAATAGTCATTCATGCAATG 300
Db |||||
Qy 415 TCTGCTACTTCTTTCCCTTCTGCTCATGTGTACTACAAAATAGTCATTCATGCAATG 356
Db |||||
Qy 301 GTGAGGCGCGCAATTAGGAAAAGAAAGCTGTGGAAGCCCACTTTGCCATCTCTACATGG 360
Db |||||


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Db      355 GTGAGCGCCGCAATTAGGAAAGAGCTCTGGAAGCCACTTTGCCATCTCTACCTGG 296
Qy      361 TCCAGGTCCTTCATTATTTTGCACAGAGAGGTCTTTTTCATTTTCCAAAATCCA 420
Db      295 TCCAGGTCCTTCATTATTTTGCACAGAGAGGTCTTTTTCATTTTCCAAAATCCA 236
Qy      421 GGAACCTCTTTCCATGAGTACTCTCAGTCTCTCTTTGTTAGTAGCCTTTATCCCA 480
Db      235 GGAACCTCTTTCCATGAGTACTCTCAGTCTCTCTTTGTTAGTAGCCTTTATCCCA 176
Qy      481 CGCAATTTGTGAATGTAAACATCATGTTTCCATGGGTCTTCCATTTGAGATGGCAAT 540
Db      175 CGCAATTTGTGAATGTAAACATCATGTTTCCATGGGTCTTCCATTTGAGATGGCAAT 116
Qy      541 TTGTGTGGTCCGTTGAAGCCTTTGGCGAGCGCGGCGAGCGCTGGCGAGCTGGCGAG 600
Db      115 TTGTGTGGTCCGTTGAAGCCTTTGGCGAGCGCGGCGAGCGCTGGCGAGCTGGCGAG 56
Qy      601 CTGACGCGGCGGCGAGGCGGCGGCGGCGGCTGTGCGGCTTCTTTAGTAC 653
Db      55 CTGACGCGGCGGCGAGGCGGCGGCGGCGGCTGTGCGGCTTCTTTAGTAC 3

RESULT 15
BUI83451/c
LOCUS      BUI83451      669 bp      mRNA      linear      EST 04-SEP-2002
DEFINITION AGENCOURT 7954125 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6110024
5', mRNA sequence.
ACCESSION  BUI83451
VERSION    BUI83451.1 GI:22697435
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
REFERENCE  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
          1 (bases 1 to 669)
          NIH-MGC http://mgs.nci.nih.gov/.
          National Institutes of Health, Mammalian Gene Collection (MGC)
          Unpublished (1999)
          Contact: Robert Strausberg, Ph.D.
          Email: cgapbs-r@mail.nih.gov
          Tissue Procurement: DCTD/DTF
          cDNA Library Preparation: Rubin Laboratory
          DNA Sequencing by: Agencourt Bioscience Corporation
          Clone distribution: MGC clone distribution information can be
          found through the I.M.A.G.E. Consortium/LLNL at:
          http://image.llnl.gov
          Plate: LICM2356 row: n column: 09
          High quality sequence stop: 632.
FEATURES   Location/Qualifiers
            1..669
            /organism="Homo sapiens"
            /mol_type="mRNA"
            /db_xref="taxon:9606"
            /clones="IMAGE:6110024"
            /tissue_type="melanotic melanoma, cell line"
            /lab_host="DH10B (phage-resistant)"
            /clone_lib="NIH_MGC_112"
            /note="Organ: skin; Vector: pOTB7; Site: 1: XhoI; Site 2:
            EcoRI; cDNA made by oligo-dT priming. Directionally cloned
            into EcoRI/XhoI sites using the following 5' adaptor:
            GGACAGAG(G). Library constructed by Ling Hong in the
            laboratory of Gerald M. Rubin (University of California,
            Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
            Superscript II RT (Life Technologies). Note: this is a
            NIH_MGC Library."

ORIGIN
Query Match      53.9%; Score 646.4; DB 5; Length 669;
Best Local Similarity 99.8%; Pred. No. 3.6e-147;
Matches 647; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

FEATURES

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Qy      1  GGAACTAAAAAGAACTTTTATTTAGGGCAAGGGGATGCAACAATACAAAATCAA 60
Db      648 GGAACTAAAAAGAACTTTTATTTAGGGCAAGGGGATGCAACAATACAAAATCAA 589
Qy      61  AAGCTTATCTGGTATTTAACTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
Db      588 AAGCTTATCTGGTATTTAACTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 529
Qy      121 TTTACATTTGCTAAGTCTCCTGATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGG 180
Db      528 TTTACATTTGCTAAGTCTCCTGATCTGCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGG 469
Qy      181 GCAGATTCCTTAAGCGGACCTTTGGGACAACTTTATCAGGGAGAGGAACTGCTCATT 240
Db      468 GCAGATTCCTTAAGCGGACCTTTGGGACAACTTTATCAGGGAGAGGAACTGCTCATT 409
Qy      241 TCTGCCCTACTCTTTTCCCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
Db      408 TCTGCCCTACTCTTTTCCCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 349
Qy      301 GTGAGGCGCGCAATTAGGGAAAAGAGCTCTGGAAGGCCACTTTGCCATCTCTACACTGG 360
Db      348 GTGAGGCGCGCAATTAGGGAAAAGAGCTCTGGAAGGCCACTTTGCCATCTCTACACTGG 289
Qy      361 TCCAGGTCTCTCATTATTTTGTCCACAGCAGAGGGTCTTTTTCATTTTCCAAAATCCA 420
Db      288 TCCAGGTCTCTCATTATTTTGTCCACAGCAGAGGGTCTTTTTCATTTTCCAAAATCCA 229
Qy      421 GGGAACTCCTTTTCCATGAGTACTCTCAGTCTCTCTCTCTCTCTCTCTCTCTCTCT 480
Db      228 GGGAACTCCTTTTCCATGAGTACTCTCAGTCTCTCTCTCTCTCTCTCTCTCTCTCT 169
Qy      481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGGTCTTCCATTTGAGATGGCAAT 540
Db      168 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGGTCTTCCATTTGAGATGGCAAT 109
Qy      541 TTGTGTGGTCCGTTGAAGCCTTTGGCGAGCGCGGCGAGCGCTGGCGAGCTGGCGAG 600
Db      108 TTGTGTGGTCCGTTGAAGCCTTTGGCGAGCGCGGCGAGCGCTGGCGAGCTGGCGAG 49
Qy      601 CTGACGCGGCGGCGAGGCGGCGGCGGCTGTGCGGCTTCTTTTCTTTTCTTTTCTTT 648
Db      48  CTGACGCGGCGGCGAGGCGGCGGCGGCTGTGCGGCTTCTTTTCTTTTCTTTTCTTT 1

RESULT 16
BQ678300/c
LOCUS      BQ678300      940 bp      mRNA      linear      EST 15-JUL-2002
DEFINITION AGENCOURT 8500535 NIH_MGC_112 Homo sapiens cDNA clone IMAGE:6294152
5', mRNA sequence.
ACCESSION  BQ678300
VERSION    BQ678300.1 GI:21790979
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
          1 (bases 1 to 940)
          NIH-MGC http://mgs.nci.nih.gov/.
          National Institutes of Health, Mammalian Gene Collection (MGC)
          Unpublished (1999)
          Contact: Robert Strausberg, Ph.D.
          Email: cgapbs-r@mail.nih.gov
          Tissue Procurement: DCTD/DTF
          cDNA Library Preparation: Rubin Laboratory
          DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
          Clone distribution: MGC clone distribution information can be
          found through the I.M.A.G.E. Consortium/LLNL at:
          http://image.llnl.gov
          Plate: LICM2498 row: f column: 09
          High quality sequence stop: 579.
FEATURES   Location/Qualifiers

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source
1. .940
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone_lib="NIH_MGC_112"
/notes="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2:
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

ORIGIN
Query Match 53.9%; Score 646.4; DB 5; Length 940;
Best Local Similarity 99.8%; Pred. No. 3.7e-147;
Matches 647; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAACATAAAAGAACCTTTATTTGAGGCGCAAGGGATGCAAAACAATCAAAATCAA 60
Db |
Qy 61 AAGCTTATCTGTTATTAACCTTTCTCTCTGCTGCTCAAAATCAGAGTTAGATTTTATT 120
Db |
Qy 588 AAGCTTATCTGTTATTAACCTTTCTCTCTGCTGCTCAAAATCAGAGTTAGATTTTATT 529
Qy 121 TTACATTTGCTAAGTCTCTGATCTGCTCATGAAATCTTCTATGCGGGAAGCTGTGGG 180
Db |
Qy 528 TTACATTTGCTAAGTCTCTGATCTGCTCATGAAATCTTCTATGCGGGAAGCTGTGGG 469
Qy 181 GCAGATTCCTTAAGCGACCTTTGGGCAACTCTTATCAGGAGGAGCGAAGCTGCTCAT 240
Db |
Qy 468 GCAGATTCCTTAAGCGACCTTTGGGCAACTCTTATCAGGAGGAGCGAAGCTGCTCAT 409
Qy 241 TCTGCCTACTCTTTCCCTTCTGCTTCACTGTGTACTACAAATAGTCAATTCATGCAATG 300
Db |
Qy 408 TCTGCCTACTCTTTCCCTTCTGCTTCACTGTGTACTACAAATAGTCAATTCATGCAATG 349
Qy 301 GTGAGGCGCGCAATTAGGAAAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db |
Qy 348 GTGAGGCGCGCAATTAGGAAAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 289
Qy 361 TCCAGGTCTCTCAATATTTTGTCCACAGCAGAGGCTCTTTTGAATTTTCCAAAATCCA 420
Db |
Qy 288 TCCAGGTCTCTCAATATTTTGTCCACAGCAGAGGCTCTTTTGAATTTTCCAAAATCCA 229
Qy 421 GGGAACTCTTTTCCATGAGTACTCTCAGGTCTCTCTTGTAGTAGCCCTTTATCCCCA 480
Db |
Qy 228 GGGAACTCTTTTCCATGAGTACTCTCAGGTCTCTCTTGTAGTAGCCCTTTATCCCCA 169
Qy 481 GCGAATTTGTGAATGTAAACATCATGCTTCCATGCGGTGTTCATTTGAGATGGCAAT 540
Db |
Qy 168 GCGAATTTGTGAATGTAAACATCATGCTTCCATGCGGTGTTCATTTGAGATGGCAAT 109
Qy 541 TTGGTGTGGTCCGTTGAAGCCTTTGGCCAGCGCGCGGACGCTGTGGCGAGCTGGCGAG 600
Db |
Qy 108 TTGGTGTGGTCCGTTGAAGCCTTTGGCCAGCGCGCGGACGCTGTGGCGAGCTGGCGAG 49
Qy 601 CTGGACCGGGGCGGAGCGGCGGCGGCGGCTGTGCGCTTCCTT 648
Db |
Qy 48 CTGGACCGGGGCGGAGCGGCGGCGGCGGCTGTGCGCTTCCTT 1

RESULT 17
BG332809/c 681 bp mRNA linear EST 27-FEB-2001
LOCUS 602430639f1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4548656 5',
DEFINITION mRNA sequence.
ACCESSION BG332809
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VERSION BG332809.1 GI:13139247
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 681)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabs-r@mail.nih.gov
Tissue Procurement: DCTD/DTp/Gazdar
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCML238 row: m column: 09
High quality sequence stop: 660.
FEATURES
Location/Qualifiers
1. .681
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone_lib="NIH_MGC_112"
/tissue_type="large cell carcinoma"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_112"
/notes="Organ: lung; Vector: pOTB7; Site 1: XhoI; Site 2:
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

ORIGIN
Query Match 53.8%; Score 645; DB 4; Length 681;
Best Local Similarity 99.8%; Pred. No. 7.8e-147;
Matches 656; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 1 GGAACATAAAAGAACCTTTATTTGAGGCGCAAGGGATGCAAAACAATCAAAATCAA 60
Db |
Qy 656 GGAACATAAAAGAACCTTTATTTGAGGCGCAAGGGATGCAAAACAATCAAAATCAA 598
Qy 61 AAGCTTATCTGTTATTAACCTTTCTCTCTGCTGCTCAAAATGAGAGTTAGATTTTATT 120
Db |
Qy 597 AAGCTTATCTGTTATTAACCTTTCTCTCTGCTGCTCAAAATGAGAGTTAGATTTTATT 538
Qy 121 TTACATTTGCTAAGTCTCTGATCTGCTCATGAAATCTTCTATGCGGGAAGCTGTGGG 180
Db |
Qy 537 TTACATTTGCTAAGTCTCTGATCTGCTCATGAAATCTTCTATGCGGGAAGCTGTGGG 478
Qy 181 GCAGATTCCTTAAGCGACCTTTGGGCAACTCTTATCAGGAGGAGCGAAGCTGCTCAT 240
Db |
Qy 477 GCAGATTCCTTAAGCGACCTTTGGGCAACTCTTATCAGGAGGAGCGAAGCTGCTCAT 418
Qy 241 TCTGCCTACTCTTTCCCTTCTGCTTCACTGTGTACTACAAAATAGTCAATTCGCAATG 300
Db |
Qy 417 TCTGCCTACTCTTTCCCTTCTGCTTCACTGTGTACTACAAAATAGTCAATTCGCAATG 358
Qy 301 GTGAGGCGCGCAATTAGGAAAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db |
Qy 357 GTGAGGCGCGCAATTAGGAAAAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 298
Qy 361 TCCAGGTCTCTCAATATTTTGTCCACAGCAGAGGCTCTTTTGAATTTTCCAAAATCCA 420
Db |
Qy 297 TCCAGGTCTCTCAATATTTTGTCCACAGCAGAGGCTCTTTTGAATTTTCCAAAATCCA 238
Qy 421 GGGAACTCTTTTCCATGAGTACTCTCAGGTCTCTCTTGTAGTAGCCCTTTATCCCCA 480
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Db 237 GGAACCTCTTTTCATGAGTACTCTCAGGTCCTCTTTGTTAAAGTACGCTTTATCCCA 178
Qy 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATT 540
Db 177 GCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATT 118
Qy 541 TTGTGTGGTCCGTTGAAGCCTTTGGCGAGCGCGGGCGGACGCTGGCGAGCTGGCGAG 600
Db 117 TTGTGTGGTCCGTTGAAGCCTTTGGCGAGCGCGGGCGGACGCTGGCGAGCTGGCGAG 58
Qy 601 CTGAGCGGGCGGAGGCGGAGCGCGGGCGGCTGTGCGCTTCCCTAGTACGTGC 657
Db 57 CTGAGCGGGCGGAGGCGGAGCGCGGGCGGCTGTGCGCTTCCCTAGTACGTGC 1

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RESULT 18
BU502376/c
LOCUS
DEFINITION BU502376 592 bp mRNA linear EST 12-SEP-2002
5', mRNA sequence.
AGENCOURT_8905908 NIH_MGC_142 Homo sapiens cDNA clone IMAGE:6452219

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ACCESSION BU502376
VERSION
KEYWORDS
SOURCE

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ORGANISM Homo sapiens (human)

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REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE NIH-MGC http://mgi.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: NCI
cDNA Library Preparation: Michael Brownstein Laboratory
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
Clone distribution by: Agencourt Bioscience Corporation

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found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1CM2625 row: 1 column: 12
High quality sequence stop: 541.
Location/Qualifiers
1. 692
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clones="IMAGE:6452219"
/tissue_type="mixed (pool of 40 RNAs)"
/lab_host="DH10B (T1-phage-resistant)"
/clone_lib="NIH_MGC_142"
/notes="Vector: pDONR-LIB; Site 1: SfiI (ggccattatggcc);
Site 2: SfiI (ggcgcttcggcc); Double-stranded cDNA was
prepared from a pool of 40 cell line polyA+ RNAs (bladder
- 2%, blood - 33.4%, brain - 5.6%, breast - 12.5%, colon -
4%, connective tissue - 1.4%, eye - 1%, intestine - 2.6%,
kidney - 2.2%, liver - 5.7%, lung - 10.8%, NK-cell - 5.2%,
ovary - 4%, pharynx - 2.5%, prostate - 4.3%, salivary
gland - 1.3%, and skin - 2.3%). 5' and 3' adaptors were
used in cloning as follows:
5'-AAGCAGTGTGATCAACGAGAGTGGCCATACGCGCGG-3' and
5'-ATTCTAGAGCGGAGCGCGGCGGACATG-DT(30)NN-3'. Full-length
enriched library was constructed using the Clontech
Creator SMART kit and size-selected to contain the >0.5 kb
size fraction (other fractions present in NIH_MGC_141).
Library created in the laboratory of M. Brownstein (NIH).
NIH). Note: this is a NIH_MGC Library."

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FEATURES
source

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RESULT 19
BU602356/c
LOCUS
DEFINITION

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BU602356 807 bp mRNA linear EST 20-SEP-2002
AGENCOURT_10014821 NIH_MGC_142 Homo sapiens cDNA clone
IMAGE:6496426 5', mRNA sequence.

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ACCESSION BU602356.1 GI:23254115
VERSION
KEYWORDS
SOURCE

```

```

ORGANISM Homo sapiens
Homo sapiens (human)

```

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REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE NIH-MGC http://mgi.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: NCI
cDNA Library Preparation: Michael Brownstein Laboratory
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
Clone distribution by: Agencourt Bioscience Corporation
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1CM2675 row: n column: 11
High quality sequence stop: 569.

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ORIGIN

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Query Match 53.7%; Score 644; DB 5; Length 692;
Best Local Similarity 99.1%; Pred. No. 1.4e-146;
Matches 647; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Qy 1 GGAACCTAAAAAGAACCTTTATTTATTGAGGCGAAGGGATGCAAAACAATACAAAAATCAA 60
Db 656 GTAACCTAAAAAGAACCTTTATTTATTGAGGCAAAAGGGATGCAAAACAATACAAAAATCAA 597
Qy 61 AGCTTATCTGATTTAACTTTTCTCTGCTCTGCTCTCAATGAGATGATTTATTTATTT 120
Db 596 AAGCTTATCTGATTTAACTTTTCTCTGCTCTGCTCTCAATGAGATGATTTATTTATTT 537
Qy 121 TTTACATTTGCTAAGTGTCTGATCTCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGG 180
Db 536 TTTACATTTGCTAAGTGTCTGATCTCTCATGAAATCCTTTCTATGGGGGAAGCTGTGGG 477
Qy 181 GCAGATTCCTTAAAGCACCCTTTGGGCAAACTCTTATCAGGGAGGAGCGAACTGCTCAT 240
Db 476 GCAGATTCCTTAAAGCACCCTTTGGGCAAACTCTTATCAGGGAGGAGCGAACTGCTCAT 417
Qy 241 TCTGCTCTACTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
Db 416 TCTGCTCTACTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 357
Qy 301 GTGAGGCGCGCAATTTAGGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db 356 GTGAGGCGCGCAATTTAGGGAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 297
Qy 361 TCAGAGTCTCTTCAATTTTGTCCACAGCAGAGGGTCTTTTGAATTTCCAAAAATCCA 420
Db 296 TCAGAGTCTCTTCAATTTTGTCCACAGCAGAGGGTCTTTTGAATTTCCAAAAATCCA 237
Qy 421 GGGAACTCTCTTTCCATGATCTCTCAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 480
Db 236 GGGAACTCTCTTTCCATGATCTCTCAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 177
Qy 481 GCGAATTTGTGAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATT 540
Db 176 GCGAATTTGTGAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCATT 117
Qy 541 TTGTGTGGTCCGTTGAAGCCTTTGGCGAGCGCGCGGCGGACGCTGGCGAGCTGGCGAG 600
Db 116 TTGTGTGGTCCGTTGAAGCCTTTGGCGAGCGCGCGGCGGACGCTGGCGAGCTGGCGAG 57
Qy 601 CTGAGCGGGCGGAGGCGGAGCGCGGGCGGCTGTGCGCTTCCCTAGTACGTGC 653
Db 56 CTGAGCGGGCGGAGGCGGAGCGCGGGCGGCTGTGCGCTTCCCTAGTACGTGC 4

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Qy	301	GTGAGCCCGCAA	TTAGGGAAGAAAGCTCTGGAAGCCCA	CTTTGCCCATCTCTCACTGG	360
Db	338	GTGAGCCCGCAA	TTAGGGAAGAAAGCTCTGGAAGCCCA	CTTTGCCCATCTCTCACTGG	279
Qy	361	TCCAGGTCCTTCA	TATTTTGTCCACAGCGAGGGTCTTTTGATTTTCCAAAATCCA	420	
Db	278	TCCAGGTCCTTCA	TATTTTGTCCACAGCGAGGGTCTTTTGATTTTCCAAAATCCA	219	
Qy	421	GGGAATCCTTTT	TCCATGAGTACTCTCAGGTCTCTCTTTGTTTAACTAGTCCTTTATCCCCA	480	
Db	218	GGGAATCCTTTT	TCCATGAGTACTCTCAGGTCTCTCTTTGTTTAACTAGTCCTTTATCCCCA	159	
Qy	481	CGCAATTTGTAAAT	TGTAAACATCATGTGTTTCCATGGCGTGTTCATTTGAGATGGCATT	540	
Db	158	CGCAATTTGTAAAT	TGTAAACATCATGTGTTTCCATGGCGTGTTCATTTGAGATGGCATT	99	
Qy	541	TTGTGTGGTCCG	TGTGAAGCCTTGGCCGAGGCGCGCGAGCGCTGGCGGAGCTGGCGGAG	600	
Db	98	TTGTGTGGTCCG	TTGAAGCCTTGGCCGAGGCGCGCGAGCGCTGGCGGAGCTGGCGGAG	39	
Qy	601	CTGAACGCGGGG	CGGAGGCGAGCGCGCGGCGGTGTG	638	
Db	38	CTGAACGCGGGG	CGGAGGCGAGCGCGCGGCGGTGTG	1	

RESULT 21	BM549820	1125 bp	mRNA	linear	EST 20-FEB-2002							
LOCUS	AGENCOCURT 6544034	NIH_MGC_118	Homo sapiens	cdna clone	IMAGE:5745830							
DEFINITION	5', mRNA sequence.											
ACCESSION	BM549820											
VERSION	BM549820.1	GI:18785543										
KEYWORDS	EST.											
SOURCE	Homo sapiens (human)											
ORGANISM	Homo sapiens											
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;											
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.											
	1 (bases 1 to 1125)											
REFERENCE	NIH-MGC http://mgc.nci.nih.gov/ .											
AUTHORS	National Institutes of Health, Mammalian Gene Collection (MGC)											
TITLE	Unpublished (1999)											
JOURNAL												
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgabbs@mail.nih.gov Tissue Procurement: Life Technologies, Inc. cdna Library Preparation: Life Technologies, Inc. cdna Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLAM12769 row: g column: 15 High quality sequence stop: 613.											

ORIGIN

Query Match 53.1%; Score 636.2; DB 4; Length 1125;

Best Local Similarity		99.5%	Pred. No. 1.2e-144;						
Matches		638;	Conservative	0;	Mismatches	3;	Indels	0;	Gaps
Qy	1	GGAACTAAAAAGAACTTTATTTATTCAGGGCAAGGGGATGCAAACAATACAAAAATCAA	60						
Db	656	GGAACTAAAAAGAACTTTATTTATTCAGGGCAAGGGGATGCAAACAATACAAAAATCAA	597						
Qy	61	AAGCTTATCTGGTATTTAACTTTTCTTCTCTGCTTGTCAAATAGAGAGTTAGATTTTATT	120						
Db	596	AAGCTTATCTGGTATTTAACTTTTCTTCTCTGCTTGTCAAATAGAGAGTTAGATTTTATT	537						
Qy	121	TTTACATTTCTAAGTGTCTGATCTGCTCATGAAATCTTCTATGGGGGAAGCTGTGGG	180						
Db	536	TTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCTTCTATGGGGGAAGCTGTGGG	477						
Qy	181	GCAGATTCTTAAAGCGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCGAACTGCTCATTT	240						
Db	476	GCAGATTCTTAAAGCGACCCCTTTGGGACAACTCTTATCAGGGAGGAGCGAACTGCTCATTT	417						
Qy	241	TCGCGCTACTTCTTTTCCCTTCTGCTTCATGTGTACTACAAAAATAGTCAATGCGATGCAATG	300						
Db	416	TCGCGCTACTTCTTTTCCCTTCTGCTTCATGTGTACTACAAAAATAGTCAATGCGATGCAATG	357						
Qy	301	GTGAGGCCCGCAATTAGGGAAAAGAGCTCTGGAGCCCACTTTGGCCATCTCTACACTGG	360						
Db	356	GTGAGGCCCGCAATTAGGGAAAAGAGCTCTGGAGCCCACTTTGGCCATCTCTACACTGG	297						
Qy	361	TCAGGTGCTTTCATTTATTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAAATCCA	420						
Db	296	TCCAGGTGCTTTCATTTATTTGTCCACAGCCAGAGGGTCTTTTGTATTTTCCAAAAATCCA	237						
Qy	421	GGGAACTCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGCCCTTTATCCCCA	480						
Db	236	GGGAACTCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGCCCTTTATCCCCA	177						
Qy	481	GCAGAAATTGTGAATGTAAACATCATGGTTTCCATGCGCGTTCCTCATTTTCGATGGCATTT	540						
Db	176	GCAGAAATTGTGAATGTAAACATCATGGTTTCCATGCGCGTTCCTCATTTTCGATGGCATTT	117						
Qy	541	TTGGTGTGGTCCGTTGAAGCTTTGGCCGAGCGCGCGAGCGTGGCGGAGCTGGCGCGAG	600						
Db	116	TTGGTGTGGTCCGTTGAAGCTTTGGCCGAGCGCGCGAGCGTGGCGGAGCTGGCGCGAG	57						
Qy	601	CTGACCGCGGGCGGAGGAGCGAGCGCGCGGCGTGTGGCG	641						
Db	56	CTGACCGCGGGCGGAGGAGCGAGCGCGCGGCGTGTATCC	16						

RESULT 22	
BI825167/c	
LOCUS	657 bp mRNA linear EST 04-OCT-2001
DEFINITION	G03072039F1 NIH_MGC_119 Homo sapiens cDNA clone IMAGE:5164209 5',
	mRNA sequence.
ACCESSION	BI825167
VERSION	BI825167.1 GI:15936717
KEYWORDS	EST.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE	1 (bases 1 to 657)
JOURNAL	NIH-MGC http://mgc.nci.nih.gov/ .
COMMENT	National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgapbs-@email.nih.gov Tissue Procurement: Life Technologies, Inc. cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov

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Plate: LLAM11407 row: m column: 10
High quality sequence stop: 651.
Location/Qualifiers
1. .657
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5164209"
/tissue_type="medulla"
/lab_host="DH10B"
/clone_lib="NIH_MGC_119"
/notes="Organ: brain; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: EcoRV (destroyed); RNA source normal medulla from
anonymous male age 27. Library is oligo-dT primed and
directionally cloned (EcoRV site is destroyed upon
cloning). Average insert size 1.3 kb, insert size range
0.9-3 kb. Library is normalized and enriched for
full-length clones and" was constructed by C. Gruber
(Invitrogen). Research Genetics tracking code 013. Note:
this is a NIH_MGC Library."

ORIGIN
Query Match 52.9%; Score 634.4; DB 4; Length 657;
Best Local Similarity 99.8%; Pred. No. 3.1e-144;
Matches 635; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAAGTAAAGAAAGAACTTTATTTATGAGGCAAGGGATGCAAAACATACAAATCAA 60
Db |||||||
Qy 636 GGAAGTAAAGAAAGAACTTTATTTATGAGGCAAGGGATGCAAAACATACAAATCAA 577
Db |||||||
Qy 61 AAGCTTATCTGGTATTTAACTTTTCTCTGCTCTCAATGAGAGTTAGATTTTATT 120
Db |||||||
Qy 576 AAGCTTATCTGGTATTTAACTTTTCTCTGCTCTCAATGAGAGTTAGATTTTATT 517
Db |||||||
Qy 121 TTACATTTGCTAAGTCTCTGATCTCTCATGAAATCTTCTATGCGGGAAGCTGTGG 180
Db |||||||
Qy 516 TTACATTTGCTAAGTCTCTGATCTCTCATGAAATCTTCTATGCGGGAAGCTGTGG 457
Db |||||||
Qy 181 GCAGATTCCTTAAGCGACCTTTGGGACAACTCTTATCAGGAGGAGCACTGCTCAT 240
Db |||||||
Qy 456 GCAGATTCCTTAAGCGACCTTTGGGACAACTCTTATCAGGAGGAGCACTGCTCAT 397
Db |||||||
Qy 241 TCTGCTACTTCTTCTCTCTGCTTCAATGTACTACAAAATAGTCAATGCAATGCAATG 300
Db |||||||
Qy 396 TCTGCTACTTCTTCTCTCTGCTTCAATGTACTACAAAATAGTCAATGCAATGCAATG 337
Db |||||||
Qy 301 GTGAGGCCCGCAATTAGGGAAGAAAGACTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db |||||||
Qy 336 GTGAGGCCCGCAATTAGGGAAGAAAGACTCTGGAAGCCCACTTTGCCATCTCTACACTGG 277
Db |||||||
Qy 361 TCCAGGTCCTTCAATATTTGTCCACAGCCAGAGGGTCTTTTGTATTTCCAAAATCCA 420
Db |||||||
Qy 276 TCCAGGTCCTTCAATATTTGTCCACAGCCAGAGGGTCTTTTGTATTTCCAAAATCCA 217
Db |||||||
Qy 421 GGGAACCTCTTTCCATGAGTACTCTCAGGTCCTCTCTTTTGTAAAGTACGCTTTATCCCCA 480
Db |||||||
Qy 216 GGGAACCTCTTTCCATGAGTACTCTCAGGTCCTCTCTTTTGTAAAGTACGCTTTATCCCCA 157
Db |||||||
Qy 481 GCGAATTTGTGAATGAACAATCATGTTTCCATGGCGGTTCCTCAATTTGAGATGGCAATT 540
Db |||||||
Qy 156 GCGAATTTGTGAATGAACAATCATGTTTCCATGGCGGTTCCTCAATTTGAGATGGCAATT 97
Db |||||||
Qy 541 TTGCTGTGTCCTGTTGAAGCCTTGGCCGAGCGCGGCGGAGCTGGGCGAGCTGGGCGAG 600
Db |||||||
Qy 96 TTGCTGTGTCCTGTTGAAGCCTTGGCCGAGCGCGGCGGAGCTGGGCGAGCTGGGCGAG 37
Db |||||||
Qy 601 CTGGACCGGGCGGAGGCGGAGCGCGGCGGCGGCTG 636
Db |||||||
Qy 36 CTGGACCGGGCGGAGGCGGAGCGCGGCGGCGGCTG 1
Db |||||||

FEATURES
source
1..645
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3608925"
/tissue_type="endometrium, adenocarcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_44"
/notes="Organ: uterus; Vector: pOTB7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5',
adaptor: GGCACGAG(G). Library constructed by Ling Hong
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
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Db      286  GAGAGGCGAGCGCGGGCTGTGCGCCTTCTTAGTAGCTGCGCGCGGGTGGGTAGAGGG 227
Qy      675  AGCGCGCGCGGAGCGGAGGAGCCTTGGCGCGCTCGGCGAGCGGCGCTCCCGCCAGCCCTG 734
Db      226  AGCGCGCGCGGAGCGGAGGAGCCTTGGCGCGCTCGGCGAGCGGCGCTCCCGCCAGCCCTG 167
Qy      735  TCTCTCTCCCTTCTTCTTCTGCCCCGACCTCCCGCGACCCCGCGCGCGCGCGCCAGCGCCCTG 794
Db      166  TCTCTCTCCCTTCTTCTTCTGCCCCGACCTCCCGCGACCCCGCGCGCGCGCGCCAGCGCCCTG 107
Qy      795  CCTCTCGCTCCCGGACCCCGCTCGAGAGCGCTCGCGCGCCCGCCAGACAGAGGTTCTTGTA 854
Db      106  CCTCTCGCTCCCGGACCCCGCTCGAGAGCGCTCGCGCGCCCGCCAGACAGAGGTTCTTGTA 47
Qy      855  AACTTCTCTCAGTAGAAGCGTCTGCTCTCGAATATTTTCAGGCG 900
Db      46  AACTTCTCTCAGTAGAAGCGTCTGCTCTCGAATATTTTCAGGCG 1

RESULT 24
BQ050753/c
LOCUS   BQ050753      655 bp      mRNA      linear      EST 29-MAR-2002
DEFINITION  AGNCOURT_6808933 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:5784763
5' mRNA sequence.
ACCESSION BQ050753
VERSION   BQ050753.1 GI:19810093
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 655)
AUTHORS   NIH-MGC http://mgi.nci.nih.gov/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
           Email: cgabbs-remail.nih.gov
           Tissue Procurement: ATCC
           cDNA Library Preparation: Life Technologies, Inc.
           cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
           DNA Sequencing by: Agencourt Bioscience Corporation
           Clone distribution: MGC clone distribution information can be
           found through the I.M.A.G.E. Consortium/LLNL at:
           http://image.llnl.gov
           Plate: L1AM12870 row: m column: 20
           High quality sequence stop: 654.

FEATURES             source
           Location/Qualifiers
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               /organism="Homo sapiens"
               /mol_type="mRNA"
               /db_xref="taxon:9606"
               /clone="IMAGE:5784763"
               /tissue_type="leiomyosarcoma"
               /lab_host="DH10B (phage-resistant)"
               /note="Organ: uterus; Vector: pCMV-SPORT6; Site 1: NotI;
               Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
               Average insert size 2.1 kb."

ORIGIN
Query Match      52.7%; Score 632; DB 5; Length 655;
Best Local Similarity 100.0%; Pred. No. 1.2e-143;
Matches 632; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  GGAACATAAAGAACTTATTATTATTAGGCGAGGGATCAACATACAAAAATCAA 60
Db      632  GGAACATAAAGAACTTATTATTATTAGGCGAGGGATCAACATACAAAAATCAA 573
Qy      61  AAGCTTATCTGGTATTAACTTTCTTCTCTGCTGTGCAATGAGAGTTAGATTTATT 120
Db      572  AAGCTTATCTGGTATTAACTTTCTTCTCTGCTGTGCAATGAGAGTTAGATTTATT 513
Qy      121  TTTACATTTGTAAGTGTCTCTGATCTGCTCATGAAATCCTTCTATGGGGGAAGCTGTGGG 180
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Db      512  TTTACATTTGTAAGTGTCTCTGATCTCTCATGAAATCCTTCTATGGGGGAAGCTGTGGG 453
Qy      181  GCAGATTCTTAAAGCGACCTTTTGGGCAACTTTATCAGGGAGAGCGAACTGTCTATT 240
Db      452  GCAGATTCTTAAAGCGACCTTTTGGGCAACTTTATCAGGGAGAGCGAACTGTCTATT 393
Qy      241  TCTGCTCACTTCTTTTCCCTTCTGCTTCATGTGTACTACAAATAGTCAATGCAATG 300
Db      392  TCTGCTCACTTCTTTTCCCTTCTGCTTCATGTGTACTACAAATAGTCAATGCAATG 333
Qy      301  GTGAGGCGCGCAATTAGGAAAAGAGCTCTGAGAGCCACTTTGCCATCTCTACACTGG 360
Db      332  GTGAGGCGCGCAATTAGGAAAAGAGCTCTGAGAGCCACTTTGCCATCTCTACACTGG 273
Qy      361  TCCAGGTCTCTTCAATATTTTGTCCACAGCCAGAGGGTCTTTTTCATTTCCAAAAATCCA 420
Db      272  TCCAGGTCTCTTCAATATTTTGTCCACAGCCAGAGGGTCTTTTTCATTTCCAAAAATCCA 213
Qy      421  GGGAACTCTTTTCCATGAGTACTCTCAGGTCTCTTCTTGTAAAGTAGCCCTTTATCCCCA 480
Db      212  GGGAACTCTTTTCCATGAGTACTCTCAGGTCTCTTCTTGTAAAGTAGCCCTTTATCCCCA 153
Qy      481  GCGAATTGTGAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCAAT 540
Db      152  GCGAATTGTGAAATGTAAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCAAT 93
Qy      541  TTGCTGTGTCCTTGAAGCTTTGGCGAGCGCGCGGAGCGCGCGGAGCTGGCGAGCGAG 600
Db      92  TTGCTGTGTCCTTGAAGCTTTGGCGAGCGCGCGGAGCGCGCGGAGCTGGCGAGCGAG 33
Qy      601  CTGACCGCGCGGCGGAGCGGAGCGCGCGGCGG 632
Db      32  CTGACCGCGCGGCGGAGCGGAGCGCGCGGCGG 1

RESULT 25
BQ335520/c
LOCUS   BQ335520      856 bp      mRNA      linear      EST 27-FEB-2001
DEFINITION  602403994F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:4541711 5',
mRNA sequence.
ACCESSION BQ335520
VERSION   BQ335520.1 GI:13141958
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 856)
AUTHORS   NIH-MGC http://mgi.nci.nih.gov/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
           Email: cgabbs-remail.nih.gov
           Tissue Procurement: ATCC
           cDNA Library Preparation: Ling Hong/Rubin Laboratory
           cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
           DNA Sequencing by: Incyte Genomics, Inc.
           Clone distribution: MGC clone distribution information can be
           found through the I.M.A.G.E. Consortium/LLNL at:
           http://image.llnl.gov
           Plate: L1CM1220 row: k column: 24
           High quality sequence start: 4
           High quality sequence stop: 666.

FEATURES             source
           Location/Qualifiers
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               /organism="Homo sapiens"
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               /clone="IMAGE:4541711"
               /tissue_type="choriocarcinoma"
               /lab_host="DH10B (phage-resistant)"
               /clone_lib="NIH_MGC_21"
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/note="Organ: placenta; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

ORIGIN

Query Match 52.7%; Score 631.4; DB 4; Length 856;
Best Local Similarity 91.5%; Pred. No. 1.7e-143;
Matches 783; Conservative 0; Mismatches 52; Indels 21; Gaps 10;

Qy 61 AAGCTTATCTGGTATTAACTTTTCTTCTGCTTCTCAAAATGAGAGTTAGATTTTATT 120
Db 854 AAGCTTATCTGGTATTAACTTTTCTTCTGCTTCTCAAAATGAGAGTTAGATTTATT 797

Qy 121 TTTACATTTGCTAAGTGTCTGATCTGTCAT-----GAAATCTCTTCTATGGGGAAGC-T 175
Db 796 GTAACATGTGCTAAGTGTCTGATTCGGCTCATGAAATCTTCTATGGGGAACCTT 737

Qy 176 GTGGGGAGATTCC--TTAGCGACCTTTTGGGCAACTC--TTATCAGGAGGAGGAGAA 231
Db 736 GTGGNGCAGATTCCCTTTAAGCACCCTTTTGGGCAACTCCTTATTACGGGGAACCGA 677

Qy 232 C--TGCTCATTTCTGCTAC-TTCTTTCCCTTCTGCT-TCATGTGTACTACAAA--- 282
Db 676 CTTGCTCAATTTCTGCTACTTTCTTTCCTTCTGCTGTCATGTGTACTACAAATAG 617

Qy 283 TAGTCATTGTCATCAATGGTGAGGCGCGCA-ATTAGGGAAGAAAGCTCTGGAAGCCAC 341
Db 616 TTCATTTGCATGCAATGGTGAGGCGCGCAATTAGGGAAGAAAGCTCTGGAAGCCAC 557

Qy 342 TTTCGCATCTCTACATGCTCAGGTCTTCATTTATTTTGTGTCACACGACGAGGTCTTT 401
Db 556 TTTCGCATCTCTACATGCTCAGGTCTTCATTTATTTTGTCCACACGAGGCTTTT 497

Qy 402 TTGATTTTCCAAAATCCAGGGAAGTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGT 461
Db 496 TTGATTTTCCAAAATCCAGGGAAGTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGT 437

Qy 462 TAAGTAGCCTTTATCCCGAGCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTG 521
Db 436 TAAGTAGCCTTTATCCCGAGCGAATTTGTGAATGTAAACATCATGTTTCCATGGCGTG 377

Qy 522 TTCCATTTGAGATGGCATTTTGTGTGTCGTTGAAGCCTTGGCCGAGGCGCGCGAC 581
Db 376 TTCCATTTGAGATGGCATTTTGTGTGTCGTTGAAGCCTTGGCCGAGGCGCGCGGAC 317

Qy 582 GCTGGCGAGCTGGCGAGCTGGACGCGGGCGGAGAGGCGCGCGGCTGTGCGC 641
Db 316 GCTGGCGAGCTGGCGAGCTGGACGCGGGCGGAGAGGCGCGCGGCTGTGCGC 257

Qy 642 CTTCTCTTAGTACGTGCGCGGCTGGTAGAGGAGGCGCGCGGAGCGGAGGAGCGCTG 701
Db 256 CTTCTCTTAGTACGTGCGCGGCTGGTAGAGGAGGCGCGGAGCGGAGGAGCGCTG 197

Qy 702 GCGGCGCTCGCGAGGCGCTCCCGCAGCCTGTGCTCTCTCCCTCTTCTGCCCCCGAC 761
Db 196 GCGGCGCTCGCGAGGCGCTCCCGCAGCCTGTGCTCTCTCCCTCTTCTGCCCCCGAC 137

Qy 762 TCCCCGACCCCGGCGCGGCGCCACGCCCTGCTCCGCGGAGCCGCTCGCAGA 821
Db 136 TCCCCGACCCCGGCGCGGCGCCACGCCCTGCTCCGCGGAGCCGCTCGCAGA 77

Qy 822 GGCCTCGCCCCCGCCAGACAGAGGCTTCTTGTAACTTCTTTCAGTAGAAACGGTCTG 881
Db 76 GGCCTCGCCCCCGCCAGACAGAGGCTTCTTGTAACTTCTTTCAGTAGAAACGGTCTG 17

Qy 882 CTCTCGAATATTTCAG 897
Db 16 CTCTCGAATATTTCAG 1

RESULT 26

LOCUS

CA431436

DEFINITION

UI-H-FGI-bgp-m-06-0-UI.s1 NCI_CGAP_FGI Homo sapiens cDNA clone

ACCESSION

CA431436

VERSION

CA431436.1 GI:24794162

KEYWORDS

EST.

SOURCE

ORGANISM

Homo sapiens (human)

Cell lines

REFERENCE

1 (bases 1 to 666)

AUTHORS

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

Tumor Gene Index

UNPUBLISHED (1997)

CONTACT: Robert Strausberg, Ph.D.

EMAIL: cgabbs-r@mail.nih.gov

TISSUE Procurement: James Martin

CDNA Library preparation: Dr. M. Bento Soares, University of Iowa

CDNA Sequencing by: Dr. M. Bento Soares, University of Iowa

Clone Distribution: Clone distribution information can be obtained

from Dr. M. Bento Soares, bento-soares@uiowa.edu

Seq primer: M13 FORWARD

POLYA=yes.

FEATURES

source

1. .666

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="UI-H-FGI-bgp-m-06-0-UI"

/tissue_type="Cell lines"

/dev_stage="Adult"

/lab_host="DH10B (Life Technologies)"

/clone_lib="NCI CGAP FGI"

/note="Organ: Enchondroma; Vector: pT7T3-Pac (Pharmacia)

with a modified polylinker; Site 1: EcoR I; Site 2: Not I;

NCI CGAP FGI is a normalized cDNA library obtained from a

pool of mRNA from 2 cell lines from Enchondroma tissues.

The library was constructed according to Bonaldo, Lennon

and Soares, Genome Research, 6:791-806, 1996. First strand

cDNA synthesis was primed with an oligo-dT primer

containing a Not I site. Double stranded cDNA was ligated

to an EcoR I adaptor, digested with Not I, and cloned

directionally into pT7T3-Pac vector. The oligonucleotide

used to prime the synthesis of first-strand cDNA contains

a library tag sequence that is located between the Not I

site and the (dT)18 tail. The sequence tag for this

library is CGGTCACTC. The cell lines were provided by Dr.

James Martin from the University of Iowa.

TAG TISSUE=Enchondroma cell line (Mix of EN1 and EN2)

TAG LIB=UI-H-FGI

TAG_SEQ=CGGTCACTC"

ORIGIN

Query Match 52.6%; Score 630.8; DB 6; Length 666;

Best Local Similarity 99.5%; Pred. No. 2.3e-143;

Matches 643; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

Qy 1 GGAACTAAAAAGAACTTTATTATTG-AGGGCAAGGGGATGCAACAATACAAAATCA 59

Db 19 GGAAGTAAAAAGAACTTTATTATTGAGGGGATGCAACAATACAAAATCA 78

Qy 60 AAAGCTTATCTGCTATTAACTTTTCTTCTCTGCTTGTCAAATGAGAGTTAGATTAT 119

Db 79 AAAGCTTATCTGCTATTAACTTTTCTTCTCTGCTTGTCAAATGAGAGTTAGATTAT 138

Qy 120 TTTTACATTTGCTAAGTGTCTGATCTGTCATGAATCTTCTATCGGGGAGCTGTGG 179

Db 139 TTTTACATTTGCTAAGTCTCTGATCTGCTCATGAAATCTCTTATGAGGGAAGCTGTGG 198
 Qy 180 GGCAGATTCCTTAAGCAGACCTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAT 239
 Db 199 GGCAGATTCCTTAAGCAGACCTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAT 258
 Qy 240 TTCTGCTTACTCTTTTCCCTTCTGCTTCATGTGTAATGTAACAAATAGTATGCAATGCAAT 299
 Db 259 TTCTGCTTACTCTTTTCCCTTCTGCTTCATGTGTAATGTAACAAATAGTATGCAATGCAAT 318
 Qy 300 GGTGAGGCGCCCAATTAAGGAAAGAGAGCTCTGAGAGCCCACTTTGCAATCTCTACACTG 359
 Db 319 GGTGAGGCGCCCAATTAAGGAAAGAGAGCTCTGAGAGCCCACTTTGCAATCTCTACACTG 378
 Qy 360 GTCCAGGTCTCTTCAATTAATTTTGTCCACAGCAGAGGGTCTTTTGAATTTTCCAAAAATCC 419
 Db 379 GTCCAGGTCTCTTCAATTAATTTTGTCCACAGCAGAGGGTCTTTTGAATTTTCCAAAAATCC 438
 Qy 420 AGGAACTCTCTTTTCCATGAGTACTCTCAGTCTCTCTTTGTTAAGTAGCTTTATCCCC 479
 Db 439 AGGAACTCTCTTTTCCATGAGTACTCTCAGTCTCTCTTTGTTAAGTAGCTTTATCCCC 498
 Qy 480 AGCGAATTTTGAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGCGAT 539
 Db 499 AGCGAATTTTGAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGCGAT 558
 Qy 540 TTTGCTGTGTCCTTGAAGCTTTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 599
 Db 559 TTTGCTGTGTCCTTGAAGCTTTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 618
 Qy 600 GCTGGAACGCGGCGGCGGAGAGCGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 645
 Db 619 GCTGGAACGCGGCGGCGGAGAGCGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 664

RESULT 27
 BM546362/c
 LOCUS
 DEFINITION AGNCOURT 6498563 NIH_MGC_125 Homo sapiens cDNA clone IMAGE:5722924
 5', mRNA sequence.
 BM546362
 EST. GI:18779258
 ORGANISM Homo sapiens (human)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 NIH-MGC http://mgi.nci.nih.gov/.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgaabs-remail.nih.gov
 Tissue Procurement: Invitrogen
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone Distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: L1AM12709 row: m column: 05
 High quality sequence stop: 616.

FEATURES
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 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5722924"
 /lab_host="DH10B"
 /clone_lib="NIH_MGC_125"
 /note="Organ: ovary (pool of 3); Vector: pCMV-SPORT6;
 Site 1: EcoRV (destroyed); Site 2: NotI; RNA source pool
 of three ovaries, from females ranging in age from 38 to

49 yo. Library is oligo-dT primed and directionally cloned
 (EcoRV site is destroyed upon cloning). Average insert
 size 2.1 kb, insert size range 1-3.5 kb. Library is
 normalized and enriched for full-length clones and was
 constructed by C. Gruber (Invitrogen). Research Genetics
 tracking code 036."

ORIGIN

Query Match 52.5%; Score 629; DB 4; Length 687;
 Best Local Similarity 99.8%; Pred. No. 6.5e-143;
 Matches 640; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 Qy 1 GGAACCTAAAAAGAAC-TTTATTTATTTAGGCGCAAGGGGATGCAACAATACAAAAATCA 59
 Db 661 GGAACCTAAAAAGAAC-TTTATTTATTTAGGCGCAAGGGGATGCAACAATACAAAAATCA 602
 Qy 60 AAGCTTATCTGCTATTTAACTTTCTTCTCTGCTTGTCAAAATGAGAGTTAGATTTTAT 119
 Db 601 AAGCTTATCTGCTATTTAACTTTCTTCTCTGCTTGTCAAAATGAGAGTTAGATTTTAT 542
 Qy 120 TTTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCTTCTATGGGGGAAGCTGTGG 179
 Db 541 TTTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCTTCTATGGGGGAAGCTGTGG 482
 Qy 180 GGCAGATTCCTTAAGCGACCCCTTTGGGCAAACTCTTATCAGGAGGAGCGAACTGCTCAT 239
 Db 481 GGCAGATTCCTTAAGCGACCCCTTTGGGCAAACTCTTATCAGGAGGAGCGAACTGCTCAT 422
 Qy 240 TTCTGCTTACTCTTTTCCCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCT 299
 Db 421 TTCTGCTTACTCTTTTCCCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCT 362
 Qy 300 GGTGAGGCGCGCAATTAGGGAAGAGAGCTCTGGAAGCCACCTTTTGCCATCTCTACACTG 359
 Db 361 GGTGAGGCGCGCAATTAGGGAAGAGAGCTCTGGAAGCCACCTTTTGCCATCTCTACACTG 302
 Qy 360 GTCCAGTCTCTTCAATTAATTTGTCCACAGCAGAGGGTCTTTTGTATTTTCCAAAAATCC 419
 Db 301 GTCCAGTCTCTTCAATTAATTTGTCCACAGCAGAGGGTCTTTTGTATTTTCCAAAAATCC 242
 Qy 420 AGGAACTCTTTTCCATGAGTACTCTCAGGTCTCTTCTGTTAAGTAGCTTTATCCCC 479
 Db 241 AGGAACTCTTTTCCATGAGTACTCTCAGGTCTCTTCTGTTAAGTAGCTTTATCCCC 182
 Qy 480 AGCGAATTTCTGAAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGCGAT 539
 Db 181 AGCGAATTTCTGAAATGTAACATCATGTTTCCATGCGGTGTTCCATTTGAGATGCGAT 122
 Qy 540 TTTGCTGTGTCCTTTGAAGCCTTTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 599
 Db 121 TTTGCTGTGTCCTTTGAAGCCTTTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 62
 Qy 600 GCTGGAACGCGGCGGCGGAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 640
 Db 61 GCTGGAACGCGGCGGCGGAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 21

RESULT 28

BF686811/c
 LOCUS
 DEFINITION 602140775F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4301946 5',
 mRNA sequence.
 BF686811
 EST. GI:11972219
 ORGANISM Homo sapiens (human)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 NIH-MGC http://mgi.nci.nih.gov/.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)

COMMENT	<p>Contact: Robert Strausberg, Ph.D. Email: cgapbs-remail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: Ling Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LHCMI163 row: e column: 19 High quality sequence stop: 654.</p>									
FEATURES	<p>Location/Qualifiers 1. 938 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="IMAGE:4301946" /tissue_type="leiomyosarcoma cell line" /lab_host="DH10B (phage-resistant)" /clone_lib="NIH_MGC_46" /note="Organ: uterus; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."</p>									
ORIGIN	<p>Query Match 52.4%; Score 628.6; DB 2; Length 938; Best Local Similarity 99.2%; Pred. No. 8.5e-143; Matches 642; Conservative 0; Mismatches 4; Indels 1; Gaps 1;</p>									
Qy	1	GGAACTAAAAAGAACCTTTATTTATTGAGGCGAAGGGATGCAACAACTACAAAAATCAA	60							
Db	648	GAACCTAAAAAGAACCTTTATTTATTGAGGCGAAGGGATGCAACAACTACAAAAATCAA	589							
Qy	61	AAGCTTATCTGGTATTTAACTTTTCTTCTCTGCTGTGTCAAATCAGAGTTAGATTTTATT	120							
Db	588	AAGCTTATCTGGTATTTAACTTTTCTTCTCTGCTGTGTCAAATGAGAGTTAGATTTTATT	529							
Qy	121	TTTACATTTGCTAAAGTGCTCGATCTGCTCATGAAATCCTTTATGGGGAAGCTGTGGG	180							
Db	528	TTTACATTTGCTAAAGTGCTCGATCTGCTCATGAAATCCTTTATGGGGAAGCTGTGGG	469							
Qy	181	GCAGATTCTTTAAGCGACCCCTTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAT	240							
Db	468	GCAGATTCTTTAAGCGACCCCTTTTGGGACAACTCTTATCAGGAGGAGCGAACTGCTCAT	409							
Qy	241	TCTGCCTACTCTTTCCCTTCTGCTTCATGTGTACTAC-AAAAATAGTCATTCGATGCAAT	299							
Db	408	TCTGCCTACTCTTTTCCCTTCTGCTTCATGTGTACTACAAAAATAGTCATTCGATGCAAT	349							
Qy	300	GGTGAGGCCCGCAATTAGGGAAGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTG	359							
Db	348	GGTGAGGCCCGCAATTAGGGAAGAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTG	289							
Qy	360	GTCAGGTGCTTCAATATTTTGTCCACAGCAGAGGGTCTTTTGTATTTCCAAAAATCC	419							
Db	288	GTCAGGTGCTTCAATATTTTGTCCACAGCAGAGGGTCTTTTGTATTTCCAAAAATCC	229							
Qy	420	AGGGAATCCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGCCCTTTATCCCC	479							
Db	228	AGGGAATCCTCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGCCCTTTATCCCC	169							
Qy	480	AGCGAAATTTGTGAATGTAAACATCATGTTTTCCATGGCGTGTTCATTTTCAGATGGCAT	539							
Db	168	AGCGAAATTTGTGAATGTAAACATCATGTTTTCCATGGCGTGTTCATTTTCAGATGGCAT	109							
Qy	540	TTTGGTGTGGTCCGTTGAAGCCTTTGGCGAGCGCGCGACGCTGGCGAGCTGGGCGA	599							

Db	108	TTTGGTGTGTCGTTGAAGCCTTGGCCGAGGCGCGCGACGCTGGCGAGCTGGGCGGA	49
Qy	600	GCTGGAACGCGGGCGGAGAGCGAGCGCGCGGCTGTGCGCTTCC	646
Db	48	GCTGGACGCGGGCGGAGAGCGAGCGCGCGGCTGTGCGCTTCC	2
RESULT 29			
BE745512/c			
LOCUS			
DEFINITION		990 bp mRNA linear EST 15-SEP-2000	
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		mRNA sequence.	
ACCESSION		BE745512	
VERSION		BE745512.1	
KEYWORDS		GI:10159504	
SOURCE		EST.	
ORGANISM		Homo sapiens (human)	
		Homo sapiens	
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
		Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.	
REFERENCE		1 (bases 1 to 990)	
AUTHORS		NIH-MGC http://mgc.nci.nih.gov/ .	
TITLE		National Institutes of Health, Mammalian Gene Collection (MGC)	
JOURNAL		Unpublished (1999)	
COMMENT		Contact: Robert Strausberg, Ph.D. Email: cgapbs-x@mail.nih.gov Tissue Procurement: DCTD/DTF cDNA Library Preparation: Ling Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov Plate: LLCW760 row: a column: 23 High quality sequence stop: 650.	
FEATURES		Location/Qualifiers	
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		/tissue_type="adenocarcinoma cell line"	
		/lab_host="DH10B (phage-resistant)"	
		/clone_lib="NIH_MGC_9"	
		/notes="Organ: ovary; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."	
ORIGIN			
Query Match		52.4%; Score 628.6; DB 2; Length 990;	
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Qy	1	GGAACTAAAAAGAACTTTATTTATTGAGGCGAAGGGGATGCAAACTACAAAAATCAA	60
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Qy	61	AAGCTTATCTGGTATTTAACTTTTCTTCTCTGCTCCTCAAAATGAGAGTTAGATTTATT	120
Db	575	AAGCTTATCTGGTATTTAACTTTTCTTCTCTGCTCCTCAAAATGAGAGTTAGATTTATT	516
Qy	121	TTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGAGCTGTGGG	180
Db	515	TTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCCTTCTATGGGGAGCTGTGGG	456
Qy	181	GCAGATTCCTTTAGCGACCCCTTTTGGGACAACTCTTATCAGGGAGGACGCAACTGCTCAT	240
Db	455	GCAGATTCCTTTAGCGACCCCTTTTGGGACAACTCTTATCAGGGAGGACGCAACTGCTCAT	396
Qy	241	TCTGCTTACTTCTTTCCCTTCTGCTTCTCATGTGTACTACAAATAGTCATTGTCATGCAATG	300

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Db      395  |||||||TCTGCTTCTTCCCTTCTGCTTCATGTGTACTACAAATAGTCAATGCATGCAATG 336
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Db      335  GTGAGGCGCGCAATTAGGAAAGAGCTCTGGAGCCCACTTTGCCATCTCTACACTAG 276
Qy      361  TCCAGGCTCTTCATTAATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAATCCA 420
Db      275  TCCAGGCTCTTCATTAATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAATCCA 216
Qy      421  GGGAACTCTTTTCCATGACTCTCAGGTCTCTCTTGTGTAAGTAGCCCTTTATCCCA 480
Db      215  GGGAACTCTTTTCCATGACTCTCAGGTCTCTCTTGTGTAAGTAGCCCTTTATCCCA 156
Qy      481  CGCAATTTGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAATG 540
Db      155  CGCAATTTGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAATG 96
Qy      541  TTGGTGTGCTCGTGTGAAGCTTTGGCCAGAGGGCGGCGGCGGCT 635
Db      95  TTGGTGTGCTCGTGTGAAGCTTTGGCCAGAGGGCGGCGGCGGCT 1
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Db      35  CTGACGCGGCGGCGGAGAGGCGGCGGCGGCGGCT 1

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RESULT 30
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LOCUS   BI858258
DEFINITION 60338402F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:532973 5',
mRNA sequence.
ACCESSION BI858258
VERSION   1
KEYWORDS EST.
SOURCE    Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 674)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
          Email: cgabs-r@mail.nih.gov
          Tissue Procurement: DCTD/DTF
          CDNA Library Preparation: Life Technologies, Inc.
          DNA Sequencing by: Incyte Genomics, Inc.
          Clone distribution: MGC clone distribution information can be
          found through the I.M.A.G.E. Consortium/LLNL at:
          http://image.llnl.gov
          Plate: L14M12001 Row: 1 Column: 06
          High quality sequence stop: 663.
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              /lab_hosts="DH10B (phage-resistant)"
              /clone_lib="NIH_MGC 87"
              /note="Organ: breast; Vector: pCMV-SPORT6; Site 1: NotI;
              Site 2: SalI; Cloned unidirectionally; oligo-dT primed.
              Average insert size 1.383 kb. Library enriched for
              full-length clones and constructed by Life Technologies.
              Note: this is a NIH_MGC Library."

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FEATURES

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source
1..674
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:532973"
/tissue_type="mammary adenocarcinoma, cell line"
/lab_hosts="DH10B (phage-resistant)"
/clone_lib="NIH_MGC 87"
/note="Organ: breast; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally; oligo-dT primed.
Average insert size 1.383 kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC Library."

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ORIGIN

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Query Match      52.4%; Score 628.4; DB 4; Length 674;
Best Local Similarity 99.5%; Pred. No. 9.1e-143;

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Matches 651; Conservative 0; Mismatches 1; Indels 2; Gaps 2;
Qy      1  GGAACTAAAAAGAACTTTATTTATTGAGGCAAGGGAGTCAAAACATAC-AAATAATCA 59
Db      654  GGAACTAAAAAGAACTTTATTTATTGAGGCAAGGGAGTCAAAACATACCGGAAATCA 595
Qy      60  AAAGCTTATCTGGTATTAACTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 119
Db      594  AAAGCTTATCTGGTATTAACTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 535
Qy      120  TTTTACATTTGCTAAGTGTCTGATCTGCTCATCAAAATCTCTCTATGGGGAAGCTGTGG 179
Db      534  TTTTACATTTGCTAAGTGTCTGATCTGCTCATGAAATCTCTCTATGGGGAAGCTGTGG 475
Qy      180  GGCAATTTCTTAAAGCAACCTTTTGGCAAACTCTTATCAGGGAGGAGCAACTGCTCAT 239
Db      474  GGCAATTTCTTAAAGCAACCTTTTGGCAAACTCTTATCAGGGAGGAGCAACTGCTCAT 415
Qy      240  TTCTGCTCTACTTTCTTCCCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTT 299
Db      414  TTCTGCTCTACTTTCTTCCCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTT 355
Qy      300  GGTGAGGCGCGCAATTAGGGAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTG 359
Db      354  GGTGAGGCGCGCAATTAGGGAAGAAAGCTCTGGAAGCCCACTTTGCCATCTCTACACTG 295
Qy      360  GTCCAGGTCTCTCATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAATCC 419
Db      294  GTCCAGGTCTCTCATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAATCC 235
Qy      420  AGGCACTCTCTTTTCCATGAGTA-CTCTCAGGTCTCTCTCTTGTGTAAGTAGCTTTATCCC 478
Db      234  AGGCACTCTCTTTTCCATGAGTACTCTCAGGTCTCTCTCTTGTGTAAGTAGCTTTATCCC 175
Qy      479  CAGCAATTTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCA 538
Db      174  CAGCAATTTGTGAAATGTAACATCATGTTTCCATGGCGTGTTCATTTGAGATGGCA 115
Qy      539  TTTTGTGTGCTCGTGTGAAAGCTTTGCCAGGCGCGGCGGCGGCTGTGGCCCTTCTTAGTA 598
Db      114  TTTTGTGTGCTCGTGTGAAAGCTTTGCCAGGCGCGGCGGCGGCTGTGGCCCTTCTTAGTA 55
Qy      599  AGCTGAGCGGCGGCGGAGGAGGCGGCGGCGGCGGCTGTGGCCCTTCTTAGTA 652
Db      54  AGCTGAGCGGCGGCGGAGGAGGCGGCGGCGGCGGCTGTGGCCCTTCTTAGTA 1

RESULT 31
CA307888
LOCUS   CA307888
DEFINITION UI-H-FT1-bib-a-01-0-UI.s1 NCI CGAP FT1 Homo sapiens cDNA clone
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ACCESSION CA307888
VERSION   1
KEYWORDS EST.
SOURCE    Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 686)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE     National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
          Tumor Gene Index
          Unpublished (1997)
          Contact: Robert Strausberg, Ph.D.
          Email: cgabs-r@mail.nih.gov
          Tissue Procurement: Dr. Gary W. Hunninghake, U of I
          cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
          cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
          DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
          Clone Distribution: Clone distribution information can be obtained
          from Dr. M. Bento Soares, bento-soares@uiowa.edu
          Seq primer: M13 FORWARD

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Db	319	GTGAGGCCGCAATTAGGGAAGAAGCTCTGGAAAGCCCACTTTGCCATCTCTACACTGG	378
Qy	361	TCAGAGTCCCTTCATTATTTTGTCCACAGCCAGAGGGTCTTTTTCATTTTCCAAAAATCCA	420
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Qy	421	GGGAACCTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTCTTAAAGTAGCCCTTTATCCCCA	480
Db	439	GGGAACCTCCTTTTCCATGAGTACTCTCAGGTCTCTCTTCTTAAAGTAGCCCTTTATCCCCA	498
Qy	481	GCGAATTTGTGAATGTAAACATCATGCTTTCCATGCGGTGTTCATTTGAGATGGCAAT	540
Db	499	GCGAATTTGTGAATGTAAACATCATGCTTTCCATGCGGTGTTCATTTGAGATGG-ATT	557
Qy	541	TTGGTGTGCTCCCTTTGAAGCCTTTGGCCGAGCGCGGCGGAGCTGGCGGAGCTGGCGGAG	600
Db	558	TTGGTGTGCTCCCTTTGAAGCCTTTGGCCGAGCGCGGCGGAGCTGGCGGAGCTGGCGGAG	617
Qy	601	CTGAGCGCGGGCGGAGAGCGCGGCTGTGCGCCCTTCCTTACTAGCTGC	657
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LOCUS			
DEFINITION			
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
COMMENT			
Query Match 52.4%; Score 628.2; DB 6; Length 686;			
Best Local Similarity 99.2%; Pred. No. 1e-142;			
Matches 652; Conservative 0; Mismatches 3; Indels 2; Gaps 2;			
Qy	1	GGAACTAAAAAGAACTTTATTTAGGGCAAGGGATGCAACATACAAAAATCAA	60
Db	19	GGAACTAAAAAGAACTTTATTTAGGGCAAGGGATGCAACATACAAAAATCAA	78
Qy	61	AAGCTTATCTGGTATTAACTTTTCTTCTGCTTGTCAAAATGAGAGTTAGATTTTATT	120
Db	79	AAGCTTATCTGGTATTAACTTTTCTTCTGCTTGTCAAAATGAGAGTTAGATTTTATT	138
Qy	121	TTTACATTTGCTAAGTGTCTCGATCTGTCATGAAATCCTTCTATGCGGGAGCTGTGGG	180
Db	139	TTTACATTTGCTAAGTGTCTCGATCTGTCATGAAATCCTTCTATGCGGGAGCTGTGGG	198
Qy	181	GCAGATTCCTTAAGCAGACCTTTGGGACACCTTTATCAGGAGAGCGAAGCTCTCATTT	240
Db	199	GCAAAATTCCTTAAGCAGACCTTTGGGACACCTTTATCAGGAGAGCGAAGCTCTCATTT	258
Qy	241	CTCGCCTACTCTTTTCCCTTCTGCTTCATGTCTACTACAAAATAGCTCATTTGCATGCAATG	300
Db	259	TCTCGCCTACTCTTTTCCCTTCTGCTTCATGTCTACTACAAAATAGCTCATTTGCATGCAATG	318
Qy	301	GTGAGGCCGCAATTAGGGAAGAAGCTCTGGAAAGCCCACTTTGCCATCTCTACACTGG	360
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FEATURES			
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Location/Qualifiers			
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/db_xref="taxon:9606"			
/clone="UI-H-Ftl-bib-a-01-0-UI"			
/tissue_type="Alveolar Macrophage"			
/dev_stage="Adult"			
/lab_host="DH10B (Life Technologies)"			
/clone_lib="NCI CGAP Ftl"			
/notes="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP Ftl is a normalized cDNA library constructed from a pool of 81 RNA samples from Alveolar Macrophages challenged with different treatments. The mRNA samples were a mixture of these conditions (times refer to incubations following isolation by bronchoalveolar lavage) (some normal donor macrophages were cultured in some of the conditions, other donor macrophages in different conditions). The mRNA samples were pooled for library construction. Control 0 hours; control 3 hours; control 24 hours; LPS 100 ng/ml, 3 hours; LPS 100 ng/ml, 24 hours; PMA 10 ng/ml, 3 hours; PMA 10 ng/ml, 24 hours; Klebsiella moi 10, 3 hours; Klebsiella moi 10, 24 hours; Staph aureus moi 10, 3 hours; Staph aureus moi 10, 24 hours; Adenoviral vector (Ad5 CMV eGFP), moi 500, 3 hours; Adenoviral vector (Ad5 CMV eGFP), moi 500, 24 hours; wt adenovirus moi 500, 3 hours; wt adenovirus moi 500, 24 hours; Ad vector + LPS 3 hours; Ad vector + LPS 24 hours; wt adenovirus + LPS 3 hours; wt adenovirus + LPS 24 hours. The library was normalized according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT7T3-pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dfl)18 tail. The sequence tag for this library is GGCATGCCG. The tissue was provided by Dr. Gary W. Hunninghake of the University of Iowa.			
TAG LIB=UI-H-Ftl			
TAG_SEQ=GCCCATGCCG"			
ORIGIN			

Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 2.1 kb. "

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ORIGIN
Query Match      52.1%; Score 625; DB 5; Length 641;
Best Local Similarity 100.0%; Pred. No. 6.1e-142;
Matches 625; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACATAAAGAACCTTTATTTATTGAGGCAAGGGGATCAAAACAATACAAATAACAA 60
Db 625 GGAACATAAAGAACCTTTATTTATTGAGGCAAGGGGATCAAAACAATACAAATAACAA 566

Qy 61 AAGCTTATCTGGTATTTAACTTTCTTCTGCTGTGCTCAATGAGAGTTAGATTTATT 120
Db 565 AAGCTTATCTGGTATTTAACTTTCTTCTGCTGTGCTCAATGAGAGTTAGATTTATT 506

Qy 121 TTTACATTTGTAAGTGTCTGATCTGCTCATGAATCCTTCTATGSGGGAAGCTGTGGG 180
Db 505 TTTACATTTGTAAGTGTCTGATCTGCTCATGAATCCTTCTATGSGGGAAGCTGTGGG 446

Qy 181 GCAGATTCCTTTAAGCGACCTTTTGGGCAACTCTTTATCAGGAGGAGCGAACTGCTCAT 240
Db 445 GCAGATTCCTTTAAGCGACCTTTTGGGCAACTCTTTATCAGGAGGAGCGAACTGCTCAT 386

Qy 241 TCTGCTACTTCTTTCCCTCTGCTTCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTG 300
Db 385 TCTGCTACTTCTTTCCCTCTGCTTCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTG 326

Qy 301 GTGAGGCGCGCAATTAGGGAAGAGCTCTGGAAGCCACTTTGGCCATCTCTACACTGG 360
Db 325 GTGAGGCGCGCAATTAGGGAAGAGAGCTCTGGAAGCCACTTTGGCCATCTCTACACTGG 266

Qy 361 TCCAGGTCCTTCAATTTATTTGTCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAATCCA 420
Db 265 TCCAGGTCCTTCAATTTATTTGTCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAATCCA 206

Qy 421 GGGAACTCCTTTTCCATGAGTACTCTAGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
Db 205 GGGAACTCCTTTTCCATGAGTACTCTAGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 146

Qy 481 GCGAATTTGTAAGTGTAAATGTAATCATCATGTTTCCATGGGCTGCTTCCATTTGAGATGGCA 540
Db 145 GCGAATTTGTAAGTGTAAATGTAATCATCATGTTTCCATGGGCTGCTTCCATTTGAGATGGCA 86

Qy 541 TTGTTGTGCTCGTTGAAGCCTTTGGCCAGGCGGCGGAGCTGTTGGGCGAGCTGGGCGAG 600
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Qy 601 CTGACGCGGCGGCGGAGAGGCGAGC 625
Db 25 CTGACGCGGCGGCGGAGAGGCGAGC 1

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RESULT 36
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mRNA sequence.
ACCESSION BI093074
VERSION BI093074.1 GI:14511404
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 697)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Life Technologies, Inc.

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cDNA Library Arrayed by: Incyte Genomics, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLAM11029 Row: n column: 18
High quality sequence stop: 671.
Location/Qualifiers
1. 697
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Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.5 kb. Library prepared by Life
Technologies."

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ORIGIN
Query Match      52.1%; Score 625; DB 4; Length 697;
Best Local Similarity 95.9%; Pred. No. 6.2e-142;
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Qy 68 TCTGGTATTTAACTTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 127
Db 621 TCTGGTATTTAACTTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 562

Qy 128 TTGCTAAGTGTCTGATCTGCTCATGAATCCTTCTATGGGGAAGCTGTGGGCGAGATT 187
Db 561 TTGCTAAGTGTCTGATCTGCTCATGAATCCTTCTATGGGGAAGCTGTGGGCGAGATT 502

Qy 188 CCTTAAGCGACCCCTTTGGGCAACTCTTATCAGGAGGAGCGAACTGCTCATTTCTGCT 247
Db 501 CCTTAAGCGACCCCTTTGGGCAACTCTTATCAGGAGGAGCGAACTGCTCATTTCTGCT 442

Qy 248 ACTTCTTTTCCCTTCTGCTCATGCTGCTCAAAATAGTCAATGCTGCAATGCTGAGGC 307
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Qy 308 CCGCAATTAGGGAAGAGCTCTGGAAGCCACTTTGCCATCTCTACACTGCTGCTGAGGT 367
Db 381 CCGCAATTAGGGAAGAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGCTGCTGAGGT 322

Qy 368 CCTTCATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAATCCAGGGAAT 427
Db 321 CCTTCATTTTGTCCACAGCCAGAGGGTCTTTTGTGATTTTCCAAAATCCAGGGAAT 262

Qy 428 CCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGTAGCTTTATCCCGAGGAATT 487
Db 261 CCTTTTCCATGAGTACTCTCAGGTCTCTCTTTGTTAAGTAGTAGCTTTATCCCGAGGAATT 202

Qy 488 TGTGAATGTAAACATCATGTTTCCATGGCTGCTTCCATTTGAGATGGCAATTTTGGTGT 547
Db 201 TGTGAATGTAAACATCATGTTTCCATGGCTGCTTCCATTTGAGATGGCAATTTTGGTGT 142

Qy 548 GGTCCGTTGAAGCCTTTGGCGAGCGCGGAGCGCTGGGCGAGCTGGGCGAGCTGGACG 607
Db 141 GGTCCGTTGAAGCCTTTGGCGAGCGCGGAGCGCTGGGCGAGCTGGGCGAGCTGGACG 82

Qy 608 CGGCGCGAGAGCGAGCGCGGCGGCTGTGCGCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 667
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Qy 668 TAGAGGAGCGCGCGCGGAG 688
Db 21 TAGAGGAGCGCGCGGAG 1

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LOCUS CN271600 637 bp mRNA linear EST 16-MAY-2004
DEFINITION 1700600075087 GRN_PNEU Homo sapiens cDNA 5', mRNA sequence.
ACCESSION CN271600
VERSION CN271600.1 GI:47288014
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 637)
AUTHORS Brandenberger,R., Wei,H., Zhang,S., Lei,S., Murage,J., Fisk,G.J.,
Li,Y., Xu,C., Pang,R., Guegler,K., Rao,M.S., Mandalam,R.,
Lebkowski,J and Stanton,L.W.
TITLE Transcriptome characterization elucidates signaling networks that
JOURNAL control human ES cell growth and differentiation
COMMENT Nat. Biotechnol. 22 (6), 707-716 (2004)
Contact: Brandenberger R
Regenerative Medicine
Genon Corporation
230 Constitution Drive, Menlo Park, CA 94025, USA
Tel: 650 473 8658
Fax: 650 473 7760
Email: rbrandenberger@genon.com
Insert Length: 637 Std Error: 0.00.
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/mol_type="mRNA"
/db_xref="taxon:9606"
/tissue_type="embryonic stem cell, retinoic acid and
mitogen-treated hES cell line H7"
/clone_lib="GRN_PNEU"
/notes="oligo dt primed, full-length enriched cDNA library
from hES cell line H7 (p29) maintained in feeder-free
conditions. Embryoid bodies were generated in the presence
of all-trans retinoic and mitogens."
ORIGIN
Query Match 51.9%; Score 622.8; DB 7; Length 637;
Best Local Similarity 99.7%; Pred. No. 2.1e-141;
Matches 624; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 GGAAGTAAAAAGAACCTTTATTATTCAGGGCAAGGGGATGCAAAACATACAAAATCAA 60
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Qy 61 AAGCTTATCTGGTATTAACTTTTCTCTGCTTCTCAAAATGAGAGTTAGATTTTATT 120
Db 566 AAGCTTATCTGGTATTAACTTTTCTCTGCTTCTCAAAATGAGAGTTAGATTTTATT 507
Qy 121 TTTACATTGCTAAGTGTCTGTGATCTGCTCATGAAATCCCTTCTATGGGGGAAGCTGTGGG 180
Db 506 TTTACATTGCTAAGTGTCTGTGATCTGCTCATGAAATCCCTTCTATGGGGGAAGCTGTGGG 447
Qy 181 GCAGATTCTTAAAGCAACCTTTGGGCAACTCTTTATCAGGAGGAGCGAAGCTGCTCATT 240
Db 446 GCAGATTCTTAAAGCAACCTTTGGGCAACTCTTTATCAGGAGGAGCGAAGCTGCTCATT 387
Qy 241 TCTGCCCTACTCTTTTCCCTTCTGCTTCAATGCTACTACAAAATAGTCAATGCAATGCAATG 300
Db 386 TCTGCCCTACTCTTTTCCCTTCTGCTTCAATGCTACTACAAAATAGTCAATGCAATGCAATG 327
Qy 301 GTGAGGCCCGCAATTAGGAAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 360
Db 326 GTGAGGCCCGCAATTAGGAAAAAGAGCTCTGGAAGCCCACTTTGCCATCTCTACACTGG 267
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Db 266 TCCAGGTCCTTCATTATTATTGTCACAGCAGAGGGTCTTTTGTGATTTCCAAAATCCA 207
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Qy 541 TTGGTGTGTCCTTGAAGCCTTGGCGAGCGCGGGAGCGCTGGCGAGCTGGGCGAG 600
Db 86 TTGGTGTGTCCTTGAAGCCTTGGCGAGCGCGGGAGCGCTGGCGAGCTGGGCGAG 27
Qy 601 CTGGACGCGGGCGGAGGCGGAGCG 626
Db 26 CTGGACGCGGGCGGAGGCGGAGCG 1
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LOCUS BM767559 625 bp mRNA linear EST 04-MAR-2002
DEFINITION K-EST0050042 S1SNU5s2 Homo sapiens cDNA clone S1SNU5s2-3-G06 5',
mRNA sequence.
ACCESSION BM767559
VERSION BM767559.1 GI:19097174
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 625)
AUTHORS Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.
Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
Kim,Y.S.
TITLE 21C Frontier Korean EST Project 2001
JOURNAL Unpublished (2002)
COMMENT Contact: Kim YS
Genome Research Center
Korea Research Institute of Bioscience & Biotechnology
52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
Tel: +82-42-860-4470
Fax: +82-42-860-4409
Email: yongsung@mail.kribb.re.kr
Plate: 3 row: G column: 06
High quality sequence stop: 625.
FEATURES
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Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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/sex="F"
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/cell_line="SNU-5"
/lab_host="Top10F"
/clone_lib="S1SNU5s2"
/notes="Organ: Stomach; Vector: pcNS; Site:1: EcoRI;
Site:2: NotI; The poly (A)+ RNA was dephosphorylated with
bacterial alkaline phosphatase (BAP) and then decapped
with tabacco acid pyrophosphatase (TAP). The decapped
intact mRNA was ligated with DNA-RNA linker including EcoR
I site by treatment of T4 RNA ligase and the first strand
cDNA was synthesized from oligo dt-selected mRNA by
priming with dt-tailed vector. The dt-tailed vector was
adjusted to have about 60nt. The cDNA vector was
circularized with E. coli DNA ligase after digestion of
EcoRI which site is also included in vector. An RNA strand
converted to a DNA strand by Okayama-Berg method. The
obtained cDNA vectors were used for transformation of
competent cells E. coli top10F by electroporation method.
The cDNA libraries constructed by this method are
full-length enriched cDNA library. After analyzing and
```

sequencing about 2,000 ~ 3,000 colonies in original cDNA library, the abundant cDNAs were selected and amplified by PCR reaction using vector region primer including T7 promoter as 5' primer and N(dt)14 as 3' primer. The PCR products were used as template for synthesis of biotinylated single stranded RNA by in vitro transcription reaction. The synthesized RNA probes were hybridized with antisense single stranded cDNAs prepared from original library and incubated with avidin-gel. After removing DNA-RNA hybrids by centrifuge, the subtracted cDNA libraries were constructed by transformation of the remaining DNA into competent cells E. coli Top10F' with electroporation method."

ORIGIN

Query Match 51.9%; Score 621.8; DB 4; Length 625;
Best Local Similarity 99.7%; Pred. No. 3.7e-141;
Matches 623; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 49 TACAAAATCAAAAGCTTATCTGTATTTAACTTTTCTTCTGCTGTGCAAAATGAGAG 108
Db |||||||
Qy 625 TACAAAATCAAAAGCTTATCTGTATTTAACTTTTCTTCTGCTGTGCAAAATGAGAG 566
Db |||||||

Qy 109 TTAGATTTTATTTTACATTTGCTAAGTGCTCTGCTCATGAATCCTTCTATGGG 168
Db |||||||

Qy 565 TTAGATTTTATTTTACATTTGCTAAGTGCTCTGCTCATGAATCCTTCTATGGG 506
Db |||||||

Qy 169 GGAAGCTGTGGGCGAGATTCCTTAAGCGACCTTTGGGCAACCTTATCAGGAGGAGC 228
Db |||||||

Qy 505 GGAAGCTGTGGGCGAGATTCCTTAAGCGACCTTTGGGCAACCTTATCAGGAGGAGC 446
Db |||||||

Qy 229 GAACGTCTATTTCTGCTACTTCTTCCCTTCTGCTTCAATGCTACAAAATAGTCA 288
Db |||||||

Qy 445 GAACGTCTATTTCTGCTACTTCTTCCCTTCTGCTTCAATGCTACAAAATAGTCA 386
Db |||||||

Qy 289 TTGCATCAATGCTGAGCGCGCAATTAGGAAAGAGCTCTGGAAGCCACCTTTGCCA 348
Db |||||||

Qy 385 TTGCATCAATGCTGAGCGCGCAATTAGGAAAGAGCTCTGGAAGCCACCTTTGCCA 326
Db |||||||

Qy 349 TCTCTACACTGCTCCAGTCTCTTCAATTTTGTCCACAGCAGAGGCTCTTTTGAATTT 408
Db |||||||

Qy 325 TCTCTACACTGCTCCAGTCTCTTCAATTTTGTCCACAGCAGAGGCTCTTTTGAATTT 266
Db |||||||

Qy 409 TCCTCAAAATCAGGGAACCTCTTTTCCATGAGTACTCTCAGGCTCCTCTTTGTTAAGTAG 468
Db |||||||

Qy 265 TCCTCAAAATCAGGGAACCTCTTTTCCATGAGTACTCTCAGGCTCCTCTTTGTTAAGTAG 206
Db |||||||

Qy 469 CTTTATCCCCAGCGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTGTTCCATT 528
Db |||||||

Qy 205 CTTTATCCCCAGCGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTGTTCCATT 146
Db |||||||

Qy 529 TGAGATGCGATTTTGGTGTGCTTCAAGCCTTGGCGGAGCGCGGCGGAGCGCTGGGC 588
Db |||||||

Qy 145 TGAGATGCGATTTTGGTGTGCTTCAAGCCTTGGCGGAGCGCGGCGGAGCGCTGGGC 86
Db |||||||

Qy 589 GAGCTGGCGAGCTGAGCGCGGCGGAGCGGAGCGCGGCGGAGCGCTGGGCCTTCTTT 648
Db |||||||

Qy 85 GAGCTGGCGAGCTGAGCGCGGCGGAGCGGAGCGCGGCGGAGCGCTGGGCCTTCTTT 26
Db |||||||

Qy 649 AGTACGTGCGCGGCTGGGTAGAGG 673
Db |||||||

25 AGTACGTGCGCGGCTGGGTAGAGG 1

RESULT 39
BM842132/c
LOCUS K-EST0119473 S12SNU216 Homo sapiens cDNA clone S12SNU216-56-F10 5',
DEFINITION mRNA sequence.
BM842132
ACCESSION BM842132
VERSION BM842132.1 GI:19198541
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

1 (bases 1 to 628)

AUTHORS Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,

Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and

Kim,Y.S.

21C Frontier Korean EST Project 2001

UNPUBLISHED (2002)

CONTACT: Kim YS

Genome Research Center

Korea Research Institute of Bioscience & Biotechnology

52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea

Tel: +82-42-860-4470

Fax: +82-42-860-4409

Email: yongsung@mail.kribb.re.kr

Plate: 56 row: F column: 10

High quality sequence stop: 628.

FEATURES

source

1. 628

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="S12SNU216-56-F10"

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/tissue_type="Lymph node"

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/lab_host="Top10F"

/clone_lib="S12SNU216"

/notes="Organ: Stomach; Vector: pcNS; Site1: EcoRI;

Site2: NotI; The poly (A)+ RNA was dephosphorylated with

bacterial alkaline phosphatase (BAP) and then decapped

with tabacco acid pyrophosphatase (TAP). The decapped

intact mRNA was ligated with DNA-RNA linker including EcoR

I site by treatment of T4 RNA ligase and the first strand

cDNA was synthesized from oligo dr-selected mRNA by

priming with dr-tailed vector. The dr-tailed vector was

adjusted to have about 60nt. The cDNA vector was

circularized with E. coli DNA ligase after digestion of

EcoRI which site is also included in vector. An RNA strand

converted to a DNA strand by Okayama-Berg method. The

obtained cDNA vectors were used for transfection of

competent cells E. coli Top10F' by electroporation method.

The cDNA libraries constructed by this method are

full-length enriched cDNA library."

ORIGIN

Query Match 51.8%; Score 621.4; DB 4; Length 628;
Best Local Similarity 99.8%; Pred. No. 4.7e-141;
Matches 622; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAACATAAAAGAACTTTTATTTATTTGAGGCGAAGGGATGCAACAAATACAAAATCAA 60
Db |||||||

Qy 623 GGAACATAAAAGAACTTTTATTTATTTGAGGCGAAGGGATGCAACAAATACAAAATCAA 564
Db |||||||

Qy 61 AAGCTTATCTGGTATTTAACCTTTCTTCTGCTCAAAATGAGAGTTAGATTTTATT 120
Db |||||||

Qy 563 AAGCTTATCTGGTATTTAACCTTTCTTCTGCTCAAAATGAGAGTTAGATTTTATT 504
Db |||||||

Qy 121 TTTACATTTTCTAAGTGCTCTGATCTCATGAATCCTTCTTCTATGGGGAAGCTGTGGG 180
Db |||||||

Qy 503 TTTACATTTTCTAAGTGCTCTGATCTCATGAATCCTTCTATGGGGAAGCTGTGGG 444
Db |||||||

Qy 181 GCAGATTCCTTAAGCGACCTTTTGGGACAACTCTTATCAGGAGGAGGAGCTCTCATTT 240
Db |||||||

Qy 443 GCAGATTCCTTAAGCGACCTTTTGGGACAACTCTTATCAGGAGGAGGAGCTCTCATTT 384
Db |||||||

Qy 241 TCTGCGCTACTCTTTTCCCTTCTGCTTCTGCTGCTACTACAAAATAGTCAATGCAATG 300
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Qy 383 TCTGCGCTACTCTTTTCCCTTCTGCTTCTGCTGCTACTACAAAATAGTCAATGCAATG 324
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ACENOCURT 10435041 NIH_MGC_126 Homo sapiens cDNA clone
IMAGE:6652090 5', mRNA sequence.
BU860855
EST.
Homo sapiens (human)
Homo sapiens
Homo sapiens
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 794)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov
Tissue Procurement: NCI
CDNA Library Preparation: Michael Brownstein Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2899 row: p column: 10
High quality sequence stop: 589.
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/lab_hosts="DH10B (TI-phage-resistant)"
/clone_lib="NIH_MGC_126"
/notes="Vector: pDNR-LIB; Site 1: SfiI (ggcattatggcc);
Site 2: SfiI (ggcgctcgcc); Double-stranded cDNA was
prepared from a pool of 40 cell line polyA+ RNAs (bladder
- 2%, blood - 33.4%, brain - 5.6%, breast - 12.5%, colon -
4%, connective tissue - 1.4%, eye - 1%, intestine - 2.6%,
kidney - 2.2%, liver - 5.7%, lung - 10.8%, NK-cell -
5.2%, ovary - 4%, pharynx - 2.5%, prostate - 4.3%,
salivary gland - 1.3%, and skin - 2.3%). 5' and 3'
adaptors were used in cloning as follows:
5'-AACGATGGTATCAACGATGGCATTCAGCCGGG-3' and
5'-ATTCTAGAGCCGAGCGGCGGAGATG-dt(30)NN-3'. Full-length
enriched library was constructed using the Clontech
Creator SMART kit and size-selected to contain the 0.5-1
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kb size fraction (other fractions present in NIH_MGC_127
and NIH_MGC_128). Library created in the laboratory of T.
Usdin, M.D., Ph.D. (NIMH, NIH). Note: this is a NIH_MGC
Library."
ORIGIN
Query Match 51.8%; Score 621; DB 5; Length 794;
Best Local Similarity 100.0%; Pred. No. 6e-141;
Matches 621; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAACATAAAAGAACATTTATTATTGAGGGAAGGGATGCAAAACAATACAAATCA 60
Db 624 GGAACATAAAAGAACATTTATTATTGAGGGAAGGGATGCAAAACAATACAAATCA 565
QY 61 AGCTTTATCTGGTATTAACTTTCTCTCTGCTGCAAAATGAGAGTTAGATTTATT 120
Db 564 AGCTTTATCTGGTATTAACTTTCTCTCTGCTGCAAAATGAGAGTTAGATTTATT 505
QY 121 TTTACATTTGCTAAAGTGTCTGATCTGCTCATGAAATCTCTTATGGGGAAGCTGTGG 180
Db 504 TTTACATTTGCTAAAGTGTCTGATCTGCTCATGAAATCTCTTATGGGGAAGCTGTGG 445
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Db 444 GCAGATTCCTTAAGCGACCCCTTTGGGACAACTTTATCAGGAGGAGCGAATGCTCAT 385
QY 241 TCTGCCCTACTCTTCTCCCTTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
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QY 361 TCAGAGTCTCTTCAATATTTTGTGCCACAGCCAGAGGGTCTTTTGTATTTCCAAATCCA 420
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QY 421 GGGAACTCCCTTTCCATGAGTACTCTCAGTCTCTCTCTTGTAAAGTAGCCTTTATCCCCA 480
Db 204 GGGAACTCCCTTTCCATGAGTACTCTCAGTCTCTCTCTTGTAAAGTAGCCTTTATCCCCA 145
QY 481 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTGTTTCCATTTGAGATGGCAAT 540
Db 144 GCGAATTTGTGAATGTAAACATCATGTTTCCATGCGGTGTTTCCATTTGAGATGGCAAT 85
QY 541 TTGGTGTGGTCCCTTGAAGCCTTTGGCGGAGCGCGGAGCGCTGGCGGAGCTGGCGGAG 600
Db 84 TTGGTGTGGTCCCTTGAAGCCTTTGGCGGAGCGCGGAGCGCTGGCGGAGCTGGCGGAG 25
QY 601 CTGGACGCGGGCGGAGAGGCG 621
Db 24 CTGGACGCGGGCGGAGAGGCG 4

RESULT 41
BO943717/c
LOCUS
DEFINITION
5', mRNA sequence.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Homo sapiens
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov
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Tissue Procurement: DCTD/DTP
cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2580 row: 9 column: 04
High quality sequence stop: 637.
Location/Qualifiers
1. .638
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/db_xref="taxon:9606"
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/clone_lib="NIH MGC 40"
/note="Organ: prostate; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

FEATURES
source
ORIGIN
Query Match 51.7%; Score 620; DB 5; Length 638;
Best Local Similarity 100.0%; Pred. No. 1e-140;
Matches 620; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGAACCTAAAGAACTTTATTATTGAGGCAAGGGATGCAACAAATACAAAAATCAA 60
Db 620 GGAACCTAAAGAACTTTATTATTGAGGCAAGGGATGCAACAAATACAAAAATCAA 561
Qy 61 AAGCTTATCTGGTATTAACTTTCTTCTCTGCTGTGCAATGAGAGTTAGATTTATT 120
Db 560 AAGCTTATCTGGTATTAACTTTCTTCTCTGCTGTGCAATGAGAGTTAGATTTATT 501
Qy 121 TTTACATTTGCTAGTGTCTGATCTCATGAATCCTTCTATGGGGAGCTGTGG 180
Db 500 TTTACATTTGCTAGTGTCTGATCTCATGAATCCTTCTATGGGGAGCTGTGG 441
Qy 181 GCAGATTCCTTAAGCGACCTTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 240
Db 440 GCAGATTCCTTAAGCGACCTTTTGGGACAACTTTATCAGGAGGAGCGAACTGCTCAT 381
Qy 241 TCTGCTACTTCTTTCCCTTCTGCTTCAATGTGTAATAAATAGTCAATGCAATG 300
Db 380 TCTGCTACTTCTTTCCCTTCTGCTTCAATGTGTAATAAATAGTCAATGCAATG 321
Qy 301 GTGAGCCCGCAATTAGGAAAGAGCTCTGGAAGCCACTTTGCCATCTCTACACTGG 360
Db 320 GTGAGCCCGCAATTAGGAAAGAGCTCTGGAAGCCACTTTGCCATCTCTACACTGG 261
Qy 361 TCCAGGTCCTTCATTATTGTCACACGACAGAGGCTTTTTCATTTTCCAAAAATCCA 420
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|||||
20 CTGACCGCGGGCGGAGAGG 1
|||||
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AGENCOURT_6418411 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:5533915
5', mRNA sequence.
BM461859
BM461859.1 GI:18510899
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 898)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
JOURNAL
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM2219 row: i column: 20
High quality sequence stop: 625.
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/notes="Organ: uterus; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 2.1 Kb."

FEATURES
source
ORIGIN
Query Match 51.7%; Score 620; DB 4; Length 898;
Best Local Similarity 100.0%; Pred. No. 1.1e-140;
Matches 620; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 620 GGAACCTAAAGAACTTTATTATTGAGGCAAGGGATGCAACAAATACAAAAATCAA 561
Qy 61 AAGCTTATCTGGTATTAACTTTCTTCTCTGCTGTGCAATGAGAGTTAGATTTATT 120
Db 560 AAGCTTATCTGGTATTAACTTTCTTCTCTGCTGTGCAATGAGAGTTAGATTTATT 501
Qy 121 TTTACATTTGCTAGTGTCTGATCTCATGAATCCTTCTATGGGGAGCTGTGG 180
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Qy 241 TCTGCTACTTCTTTCCCTTCTGCTTCAATGTGTAATAAATAGTCAATGCAATG 300
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Qy	568	GAGCGCGCGGACGCTGGCGAGCTGGCGAGCTGGACGCGGGCGGAGAGCGGAGCGC	627
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Job time : 3779 secs